Business Solutions Guide

The heart of the network

25 YEARS of technology & innovation

D-Link®

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Think more performance, more reliability, more functionality

For 25 years D-Link has been creating complete, end-to-end networking solutions that deliver just that and more. With a track record of industry-beating growth, today D-Link is a billion dollar company with the scale, the resources, the experience and the expertise that the world's most demanding businesses look for.

How has this been achieved? We make sure we stay really close to our customers' businesses and then, because our R&D resources are geared to fast track product development, we provide them with early access to the most advanced solutions possible.

It all adds up to state-of-the-art solutions that will really work for your business - D-Link's switching, wireless, security, surveillance, storage and management solutions deliver best-in-class performance.
We offer standardised technology with industry leading functionality integrated into highly flexible, reliable and secure solutions that are easy to implement, at a price you can afford. Who could ask for more?

Key Solutions

L3 Core Ethernet Switches
DES-7200 Series
DGS-3600 Series

Storage
DSN-6000 Series

Security
DFL-160

L3 Aggregated Ethernet Switches
DGS-6600 Series
DGS-3620 Series
DGS-3400 Series

Unified Wireless Solutions
DWS-3000 Series
DWS-4000 Series

L2 Access Ethernet Switches
DGS-3120 Series

Smart Switches
DGS/DES-1210 Series

EasySmart Switches
DGS/DES-1100 Series

Storage

IP SAN
DSN-1100-10

NAS
DNS-1100-04

Wireless Access

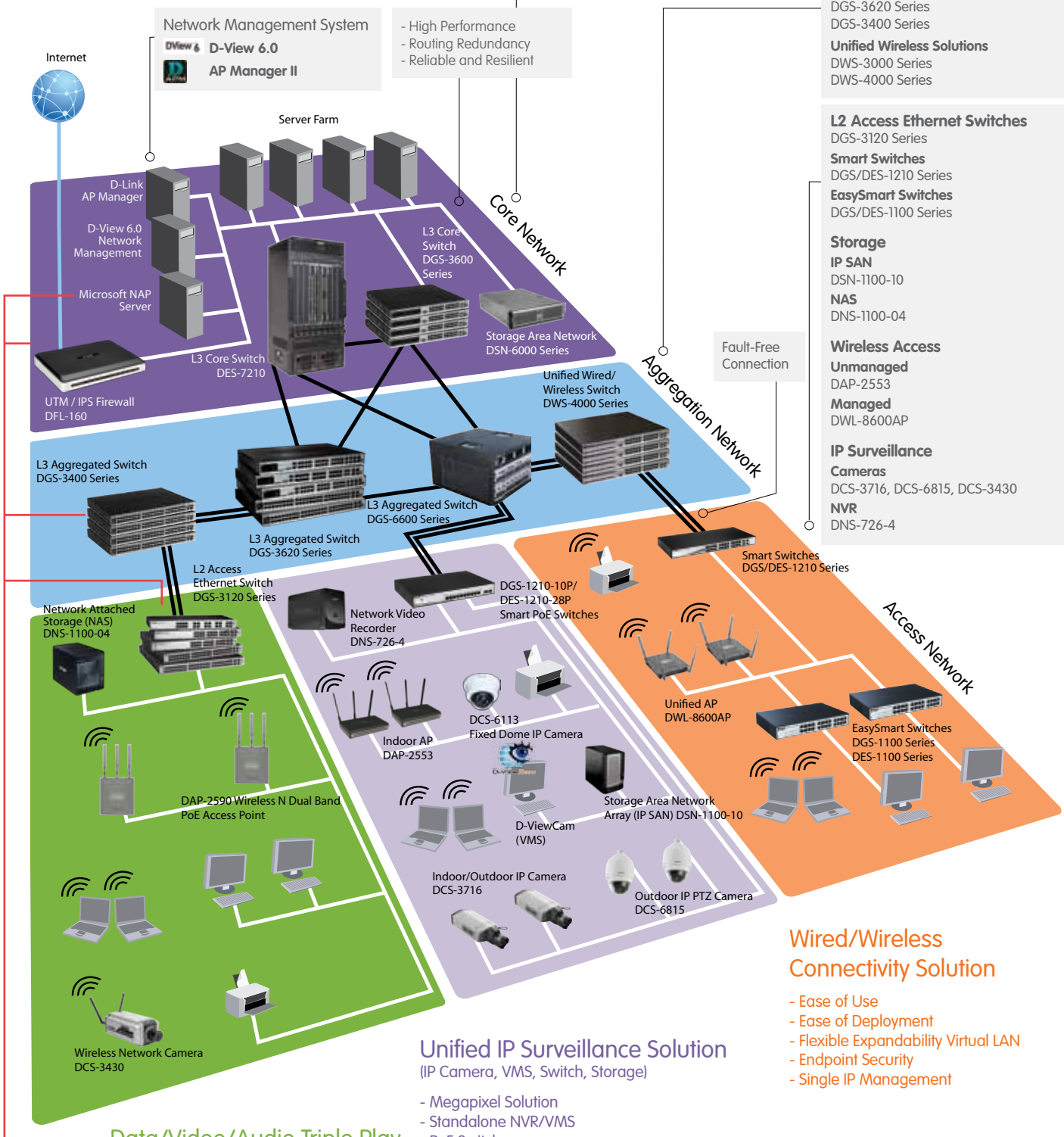
Unmanaged
DAP-2553

Managed
DWL-8600AP

IP Surveillance

Cameras
DCS-3716, DCS-6815, DCS-3430

NVR
DNS-726-4



Wired/Wireless Connectivity Solution

- Ease of Use
- Ease of Deployment
- Flexible Expandability Virtual LAN
- Endpoint Security
- Single IP Management

Unified IP Surveillance Solution

(IP Camera, VMS, Switch, Storage)

- Megapixel Solution
- Standalone NVR/VMS
- PoE Switch
- IP SAN

Data/Video/Audio Triple Play Application Solution

- Policy-Based Traffic Prioritisation
- Optimise the Quality of Multi-services

End to End Security (E2ES)

- Gateway Security
- Endpoint Security
- Joint Security

Key Solutions

D-Link is a global leader in providing network connectivity solutions for a range of businesses. From the beginning, D-Link engineers have researched, designed and manufactured innovative, standards-based networking solutions that provide our customers with secure, reliable, easy to manage high performance networks. We sell our state-of-the-art hardware at the best prices. And even though price may be the deciding factor for many new customers, D-Link's innovation, reliability and service keep them loyal year after year.

Access Network

Over the past few years, enterprise access network has seen one of the fastest areas of growth. As technology evolves and user demand increases, enterprise access network is fast turning from a 'traditional' data network to a more complex network with integrated data, voice and multimedia services. D-Link, in meeting the needs of enterprises to have more productive business processes, is therefore providing the following solutions for their access network:

- **Wireless Connectivity**
  D-Link Unified solutions bring robust, stable and secure wireless access to the business. The new generation of Wireless N Managed Access Points offer seamless connectivity, self-healing mechanisms, traffic segmentation and centralised management to achieve a wireless environment as productive and secure as a wired network.
- **Power over Ethernet**
  D-Link's unparalleled range of PoE switches are designed with functionality and robustness in mind. From unmanaged, plug and play solutions, to PoE modules in high-end chassis switches, D-Link offers features like Time-Based PoE to centrally cut off the power when not in use, and the new 802.3at PoE+ standard, to provide extra power to the next generation of network appliances.
- **IP Surveillance**
  Traditionally, CCTV cameras, Video Recorders and sensors have been a separate part of a business's subsystems. IP technology applied to Surveillance brings flexibility, unified management and comprehensive image recording and indexing to modern networks. With a complete range of IP cameras and Network Video Recordings (NVR), D-Link can offer the solution that best matches your business needs.

Aggregation Network

Aggregation network is where traffic from the access network is distributed across the business. Therefore, routing, filtering and WAN access processes, and access to resources like network storage take place at this level. D-Link offers flexible and robust solutions with Layer 2+ and Layer 3+ managed switches, ready for the next generation of IP networks:

- **IPv6**
  As the range of IPv4 addresses are being depleted, IPv6 is being deployed in an increasing number of organisations such as Internet Service Providers (ISP) and international data carriers. Therefore businesses need to build the migration from IPv4 to IPv6 into their Network strategies to ensure that they are able to benefit from the advanced services that only IPv6 can offer. Most D-Link aggregation switches are 'IPv6 Ready' certified and are ready to be integrated in current and future networks, protecting both your investment and IT budget.
- **Bandwidth Management and Traffic Filtering and Analysis**
  As the business network is under increasing pressure due to the surge on the amount of traffic and additional services, IT administrators need to ensure that traffic is at a reasonable level and network resources are utilised properly. D-Link can offer the tools to run a network smoothly and avoid disruptions, such as bandwidth management to a high level of granularity, D-Link SafeGuard Engine to protect the switch from unexpected traffic peaks or virus outbreaks, and sFlow compatibility to analyse network sessions in great detail.
- **Network Storage**
  As the business data grows and new technologies like virtualisation are being widely implemented, effective storage is a primary concern for any business. D-Link's range of Network Access Storage (NAS) devices can ensure that all your important data is easily accessible yet protected from unauthorised access. RAID technology protects your content from disk failures and additional services like FTP and File Server provide secure access to your data from the Internet. For businesses with more complex storage needs, D-Link's Storage Attached Network (SAN) products provide advanced features like consolidation, volume snapshots and virtualisation, with a range of devices that are"VMware Ready" certified.

Core Network

The core is the business backbone and is the most critical part of the network. High availability, resiliency and fault isolation are important factors to avoid critical disruptions. D-Link have the technology to ensure that the core processes run smoothly and meet the business needs:

- **10 Gigabit Uplinks**
  As network traffic increases, Gigabit technology is becoming a bottleneck at the core portion of the network. 10 Gigabit uplinks are being deployed as a crucial technology to ensure that the core can provide the services and features needed at the lower levels of the network. D-Link offer 10 GbE technology in both copper and fibre modules in a wide variety of Layer 2+ and Layer 3+ core switches.
- **xStacking Technology**
  D-Link's stacking technology provides resiliency and high availability in the form of high-speed, dual-ring stacking solutions that can work around a hardware fault in milliseconds. Faulty hardware can be hot-swapped and replaced without impacting the rest of the network, minimising downtime and ensuring that critical processes are not interrupted.

Switches

If a switch fails, then a business can experience a number of issues, from loss of connectivity for a group of users, to major disruption and downtime for the entire network. D-Link has the knowledge and expertise to help you find the right solution for your business. From the core of your network to its edge, D-Link's comprehensive selection of switches includes Gigabit, Fast Ethernet and PoE that range from entry level to fully managed, more sophisticated solutions. Products under this category include Unmanaged, EasySmart, Smart, SmartPro, Managed, xStack, Chassis and Unified Wireless.

Unmanaged

- Simplest way to build a network and let it run itself
- Plug-and-play connectivity for small businesses
- Ideal for small networks that are sharing resources
- Green Ethernet
- PoE compliant, eliminating the need for external power supplies allowing you to utilise current cables and reducing cable clutter for a more tidier system

EasySmart

- An ideal entry-level managed solution
- Basic managed features for small networks
- Easily configurable through any web browser
- Fanless, silent switches, can be deployed in any environment

Smart

- Many of the benefits of managed, as outlined below, but without the complexity or cost
- Ease of configuration through web-management
- Ideal for users wishing to build small to medium size networks but who don't need the advanced features necessary for corporate deployments
- PoE compliant eliminating the need for external power supplies allowing you to utilise current cables and reducing cable clutter for a more tidier system

SmartPro

- Centralised management and virtual stacking via D-Link intuitive single IP management
- Layer 3 static routing allows for scalable network design for future business growth
- Supports unique Auto Voice and Auto Surveillance VLANs to prioritise traffic from VoIP phones and IP cameras in the network

Managed

- Allows administrators to monitor traffic across the network, introduce redundancy and control access
- Found in networks with numerous users and applications, where performance and reliability must be maximised and security enforced
- Ideal for large sites where server farms are deployed, with hundreds of users sharing multiple printers and applications and routinely using wireless access and video-conferencing, such as in corporate headquarters
- Includes D-Link's industry leading selection of xStack switches
- PoE compliant, eliminating the need for external power supplies allowing you to utilise current cables and reducing cable clutter for a more tidier system

xStack

- Award-winning range
- High performance and 10GbE stacking options
- Fast Ethernet and Gigabit versions, with Layer 2 and Layer 3 features
- Integrates with D-Link's NetDefend range of firewalls to create ZoneDefense, a unique technology that protects the network from within
- PoE compliant, eliminating the need for external power supplies allowing you to utilise current cables and reducing cable clutter for a more tidier system

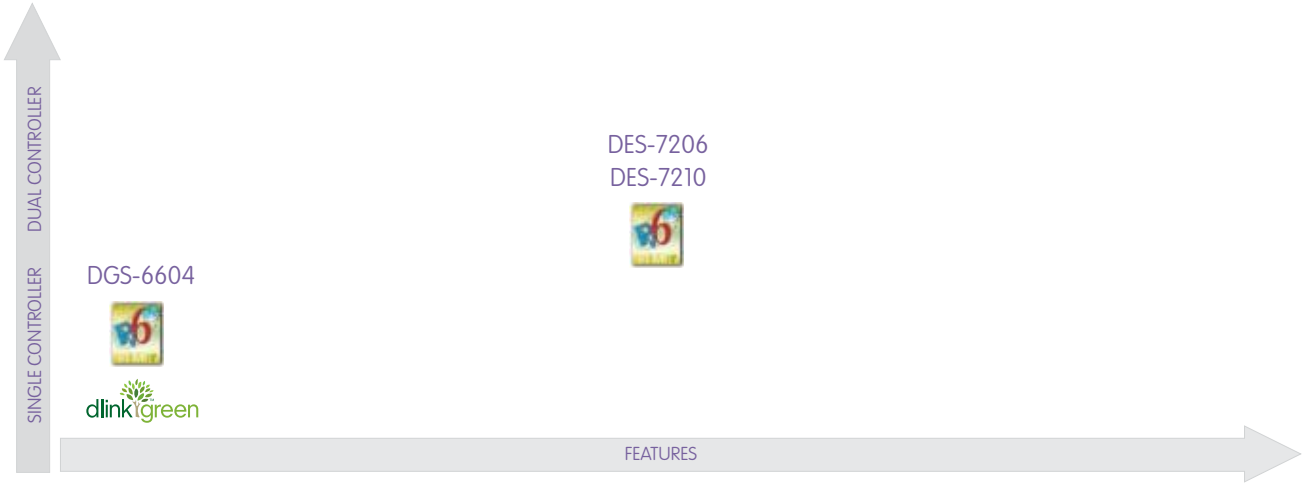
Chassis

- Enterprise-class performance, security and control
- Modular architecture with redundant control planes option
- High port density with PoE and 10GbE line cards available
- PoE compliant eliminating the need for external power supplies allowing you to utilise current cables and reducing cable clutter for a more tidier system

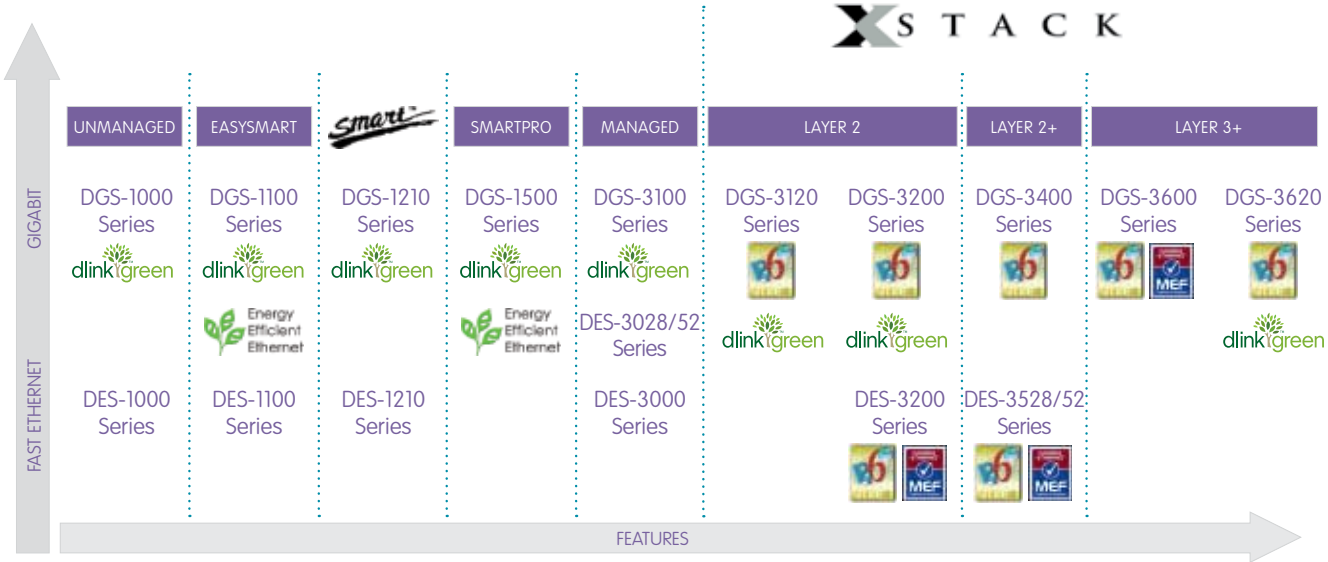
Unified Wireless

- Managed switches which offer flexible deployment, one single device can manage both wired and wireless access traffic – unified switch = wireless controller + LAN switch
- Feature-rich centralised management for wireless Access Points (AP) and clients, including security policy and RF parameters
- Enables seamless wireless roaming without the need for cursor re-authentication: necessary in particular for Voice-over-WLAN (VoWLAN) applications
- Resiliency of the entire wireless network through self-healing network and AP load balancing. The unified switch can effectively manage the wireless bandwidth, optimise WLAN traffic and ensure maximum RF coverage

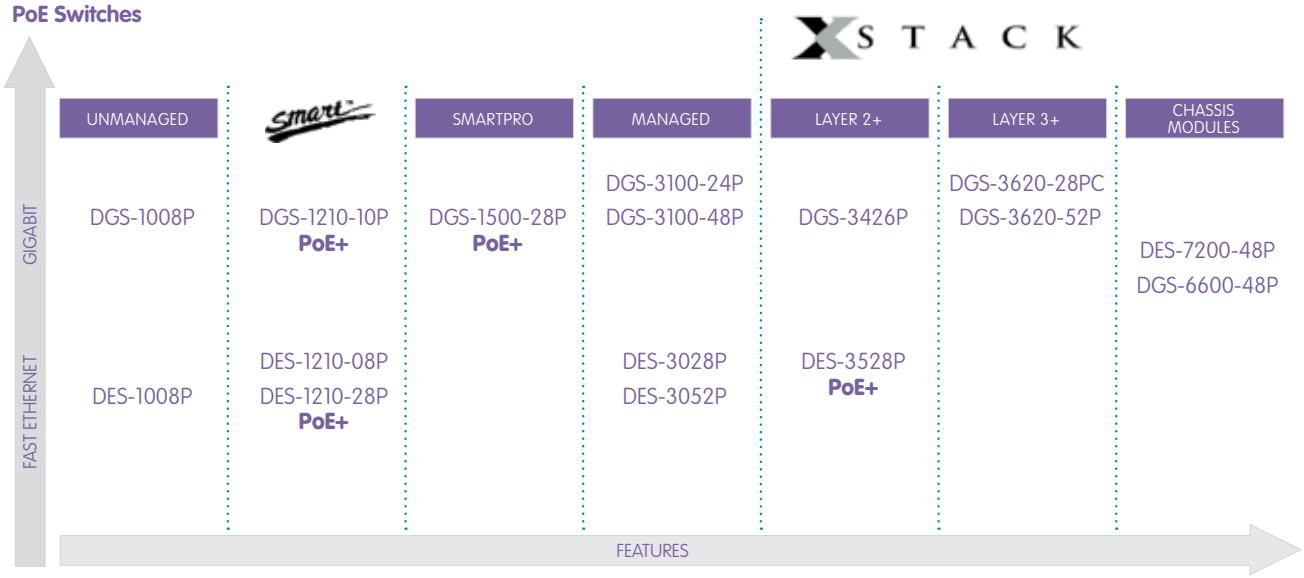
Chassis Switches



Standalone Switches



PoE Switches



xStack Chassis Switches

DES-7200 Series

The DES-7200 Series chassis-based switch is an intelligent and high-performance multi-layer LAN device designed for enterprise, campus, and metropolitan area networks (MAN). The switch is ideal for deployment in environments where uninterrupted running of network applications and a high level of performance, security and control is required. It provides the flexibility of deploying Gigabit and/or 10-Gigabit packet switching and routing.

- Internet Group Management Protocol (IGMP) Snooping
- Rapid Ether Ring Protection (RERP)
- Double VLAN (Q-in-Q)
- Selective Q-in-Q
- Private VLAN
- Virtual Router Redundancy Protocol (VRRP)
- IPv6 Ready Phase 2
- Open Shortest Path First (OSPF)
- Border Gateway Protocol (BGP)
- Protocol Independent Protocol-Dense Mode (PIM-DM)
- Protocol Independent Protocol-Sparse Mode (PIM-SM)
- Quality of Service (QoS)
- Multi Protocol Label Switching (MPLS)
- Virtual Routing & Forwarding (VRF)
- IP Flow Information Export (IPFIX)
- Global MAC-IP Binding
- CPU Protection Policy (CPP)
- 802.1X Port-Based Access Control
- 802.1X MAC-Based Access Control
- Simple Network Management Protocol (SNMP)

DES-7206-BASE

- I/O Module Slot x 4
- CPU Module Slot x 2
- Built in Fan Tray
- Built in Dust Filter
- AC/DC Power Supply Option
- Redundant Power Supply

DES-7210-BASE

- I/O Module Slot x 8
- CPU Module Slot x 2
- Built in Fan Tray
- Built in Dust Filter
- AC/DC Power Supply Option
- Redundant Power Supply

Modules

10GbE Modules

DES-7200-2XG	2 Ports 10GE XFP Module
DES-7200-4XG	4 Ports 10GE XFP Module

Gigabit Modules

DES-7200-24G	12 Ports SFP and 12 Combo Ports (10/100/1000Base-T or SFP) Module
DES-7200-24GE	24 Ports 100/1000M SFP Enhanced Module
DES-7200-48	44 Ports 10/100/1000Base-T and 4 Combo Ports (10/100/1000Base-T or SFP) Module

PoE Modules

DES-7200-48P	44 Ports 10/100/1000Base-T PoE and 4 Combo Ports (10/100/1000Base-T PoE or SFP) Module

CPU and Extension Modules

DES-7200-CM1	CPU Module for DES-7206 Chassis, 96G Switching Capacity
DES-7200-CM2	CPU Module for DES-7210 Chassis, 192G Switching Capacity
DES-7200-CM3	CPU Module for DES-7206 Chassis, 96G Switching Capacity, Support Advanced Service Engine (ASE)
DES-7200-CM4	CPU Module for DES-7210 Chassis, 192G Switching Capacity, Support Advanced Service Engine (ASE)
DES-7200-512RAM	512MB Extension RAM Module for 7200-CM3/CM4
DES-7200-ASE3	DES-7200 Advanced Service Engine (ASE) Module for MPLS Support

Power Supply Modules

DES-7200-1200AC	1200W Redundant AC Power Supply
DES-7200-1200DC	1200W Redundant DC Power Supply
DES-7200-2000AC	2000W Redundant AC Power Supply
DES-7200-2000DC	2000W Redundant DC Power Supply

Ventilation

DES-7206-FAN	Fan Tray for DES-7206-BASE
DES-7210-FAN	Fan Tray for DES-7210-BASE

DES-7200 Series

Model		DES-7206-BASE	DES-7210-BASE
Interfaces	Fast Ethernet	4 Slots Available for any Combination of Ports 2 Slots for CPU Modules	8 Slots Available for any Combination of Ports 2 Slots for CPU Modules
	Gigabit Ethernet		
	SFP Slots		
	Combo Gigabit/SFP Slots		
	10GbE Slots		
General Features	Stackability		
	Stacking Speed (per Port)		
	Switching Capacity	192 Gbps	384 Gbps
	Forwarding Mode	Store-and-Forward	
	Packet Buffer Memory	2 M	
	MAC Table	16 K per Module (Versions A1, A2), 32 K per Module (Version A3)	
	Flow Control	802.3x, HOL Blocking Prevention	
	MDI/MDIX	Configurable	
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, RERP	
	803.2ad Link Aggregation	128 Groups, 8 Ports per Group	
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based, RSPAN	
	Loopback Detection		
	Cable Diagnostics		
L3 Features	IP Interfaces	2 K	
	Routing Protocols	Static, RIP v1/v2, RIPng, OSPF v2/v3, BGP v4, BGP+, MPLS*	
	Policy-Based Routing	•	
	Route Balancing	ECMP/WCMP	
	IPv6 Tunneling	Static, ISATAP, GRE, 6to4	
	VRRP	•	
Virtual LAN (VLAN)	VLANs	Static+Dynamic: 4 K	
	GVRP	•	
	Protocol VLAN (802.1v)	•	
	Double VLAN (Q-in-Q)	Port-Based / Selective	
Multicasting	Groups	1 K	
	Protocols	IGMP v1 / v2 / v3, PIM-SM, PIM-DM, PIM Spare-Dense	
Quality of Service (QoS)	Standard	802.1p, DSCP	
	Number of Queues	8	
	Mode	Strict / WRR / Strict+WRR	
	CoS Handling	VLAN ID, 802.1p, MAC	
	Bandwidth Control	Port-Based, Flow-Based	
Security	STP Security	BPDU Filtering, BPDU Guard, Root Restriction, UDLD	
	Per-Port MAC Limitation	•	
	Static MAC	84	
	Storm Control	Broadcast / Multicast / Unicast	
	IP-MAC-Port Binding	1 K	
	DHCP Spoofing Prevention	•	
	ARP Spoofing Prevention	•	
	Traffic Segmentation	•	
	D-Link SafeGuard Engine		
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment	
	Web-Based Access Control (WAC)	Port-Based, Host-Based, Dynamic VLAN Assignment	
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN Assignment	
	Network Access Protection (NAP)		
	Guest VLAN	•	
	Switch Access	RADIUS / TACACS+, 3-Level User Account	
Access Control Lists (ACL)	Rules	(number of entries depending on installed Modules)	
	ACL Handling	Ether Type, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)	
	Time-Based ACL	•	
Power over Ethernet	Standard	24-Port PoE Module (DES-7200-24P) 48-Port PoE Module (DES-7200-48P)	
	PoE Ports		
	PoE Budget		
	Time-Based PoE	•	
Management	Switch Access	Web GUI, Telnet, Console	
	sFlow	•	
	SNMP	v1 / v2c / v3	
	DHCP	Server, Client, Relay (IPv4, IPv6)	
	RMON	•	
	TFTP Client	•	
	Syslog	•	
Physical & Environment	Power Supply	Internal, Redundant	
	Max. Power Consumption	(Depending on Installed Modules)	
	Power Saving Technology		
	Operating Temperature	0 to 40 °C	
	Operating Humidity	10% to 90% RH	
	Dimensions (W x D x H)	437 x 508 x 647 mm	437 x 448 x 956 mm
	Mean Time Between Failures (MTBF)	(Depending on Installed Modules)	
Modules/ Transceivers	10GbE Modules		
	XFP Transceivers	DEM-421XT, DEM-422XT, DEM-423XT	
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT	
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R	
Other	Redundant Power Supply	AC Power: DES-7200-1200AC, DES-7200-2000AC DC Power: DES-7200-1200DC, DES-7200-2000DC	

* Requires 7200-ASE3 Module

xStack Chassis Switches

DGS-6600 Series

For a customisable solution based on your business needs, D-Link's DGS-6600 modular chassis allows you to implement a solution-specific switch with multiple modules. The DGS-6600 is a Layer 3 backbone chassis-based Gigabit switch that provides everything a business needs for a reliable network. This 4-Slot chassis offers a 576Gbps switch fabric capacity supporting wire speed L2/L3 packet switching in dynamic or static environments. Some of the features include a high port density, with L2/L3/L4 Class of Service (CoS) and Access Control Lists (ACL), QoS, Link Aggregation, hot-swappable line cards and redundant power supply, and traffic monitoring. Designed for performance and flexibility, this chassis switch offers you the price/performance ratio necessary to deploy a cost-effective enterprise backbone network.

- 4-Slot Modular Chassis
- Hot-Swappable Line Cards
- 4x Redundant Power Supply
- 576 Gbps Switching Capacity
- 428 Mpps Forwarding Rate
- Up to 24 10GbE Slots
- Up to 144 Gigabit Ethernet Ports
- Up to 144 Gigabit PoE Ports (full-budget)
- 4K IP Interfaces
- 32K MAC Address per Module
- 4K VLANs
- 8 Priority Queues
- 128 Trunk Group, 8 Port/Group
- Telnet/Console CLI
- SNMP v1,v2c,v3/RMON
- CPU Utilisation Monitoring
- TFTP Client
- Web GUI
- Traffic Monitoring
- SYSLOG

DGS-6604-SK

- 4-Slot Chassis
- 1x 850W Power Supply
- 1x Fan Module
- 1x Control Module

DGS-6604-SK-48T

- 4-Slot Chassis
- 1x 850W Power Supply
- 1x Fan Module
- 1x Control Module
- 1x 48-Port Gigabit Module

DGS-6604-SK-48P

- 4-Slot Chassis
- 1x 850W Power Supply
- 1x Fan Module
- 1x Control Module
- 1x 48-Port Gigabit PoE Module

Modules

10 GbE Modules

DGS-6600-8XG	8 ports 10GE XFP Module

Gigabit Modules

DGS-6600-48T	48 ports 10/100/1000Base-T Module
DGS-6600-48S	48 ports SFP Module
DGS-6600-48TS	24 ports 10/100/1000Base-T and 24 ports SFP Module

PoE Modules

DGS-6600-48P	48 ports 10/100/1000Base-T PoE Module

CPU Modules

DGS-6600-CM	Control Module

Power Supply Modules

DGS-6600-PWR	850W Redundant AC Power Supply

Ventilation

DGS-6600-FAN	Smart fan Module (8 pcs.)

DGS-6600 Series

Model		DGS-6604
Interfaces	Fast Ethernet	
	Gigabit Ethernet	3 Slots Available for any Combination of Ports 1 Slot for CPU Module
	SFP Slots	
	Combo Gigabit/SFP Slots	
	10GbE Slots	
General Features	Stackability	
	Stacking Speed (per Port)	
	Switching Capacity	576 Gbps
	Forwarding Mode	Store-and-Forward
	Packet Buffer Memory	2 M
	MAC Table	32 K per Module
	Flow Control	802.3x, HOL Blocking Prevention
	MDI/MDIX	Configurable
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, RERP*
	803.2ad Link Aggregation	128 Groups, 8 Ports per Group
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based, RSPAN
	Loopback Detection	
	Cable Diagnostics	
L3 Features	IP Interfaces	4 K
	Routing Protocols	Static, RIP v1/v2, RIPng, OSPF v2/v3, BGP v4, BGP+*, IS-IS*
	Policy-Based Routing	•
	Route Balancing	ECMP/WCMP*
	IPv6 Tunneling	Static, ISATAP, GRE*, 6to4
	VRRP	•
Virtual LAN (VLAN)	VLANs	Static+Dynamic: 4 K
	GVRP	•
	Protocol VLAN (802.1v)	•
	Double VLAN (Q-in-Q)	Port Based / Selective
Multicasting	Groups	2 K
	Protocols	IGMP v1 / v2 / v3, PIM-SM, PIM-DM, PIM Spare-Dense
Quality of Service (QoS)	Standard	802.1p, DSCP
	Number of Queues	8
	Mode	Strict / WRR / Strict+WRR / DRR / WDRR
	CoS Handling	802.1p
	Bandwidth Control	Port-Based, Flow-Based
Security	STP Security	BPDU Filtering, Root Restriction
	Per-Port MAC Limitation	•
	Static MAC	16
	Storm Control	Broadcast / Multicast / Unicast
	IP-MAC-Port Binding	
	DHCP Spoofing Prevention	
	ARP Spoofing Prevention	
	Traffic Segmentation	
	D-Link SafeGuard Engine	
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment
	Web-Based Access Control (WAC)	
	MAC-Based Access Control (MAC)	
	Network Access Protection (NAP)	
	Guest VLAN	•
	Switch Access	RADIUS / TACACS+, 3-Level User Account
Access Control Lists (ACL)	Rules	(number of entries depending on installed Modules)
	ACL Handling	VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)
	Time-Based ACL	•
Power over Ethernet	Standard	48-Port PoE Module (DGS-6600-48P)
	PoE Ports	
	PoE Budget	
	Time-Based PoE	
Management	Switch Access	Web GUI, Telnet, Console
	sFlow	
	SNMP	v1 / v2c / v3
	DHCP	Server, Client, Relay (IPv4, IPv6)
	RMON	•
	TFTP Client	•
	Syslog	•
Physical & Environment	Power Supply	Internal, Redundant
	Max. Power Consumption	(Depending on Installed Modules)
	Power Saving Technology	
	Operating Temperature	0 to 50 °C
	Operating Humidity	10% to 90% RH
	Dimensions (W x D x H)	484 x 470 x 280 mm
	Mean Time Between Failures (MTBF)	(Depending on Installed Modules)
Modules / Transceivers	10GbE Modules	
	XFP Transceivers	DEM-421XT, DEM-422XT, DEM-423XT
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R
Other	Redundant Power Supply	DGS-6600-PWR (850 W)

* Implemented in future firmware upgrade

xStack Gigabit Layer 3+ Managed Switches

DGS-3620 Series

The xStack DGS-3620 Series of next generation Gigabit Layer 3+ Managed switches deliver performance, flexibility, security, multi-layer QoS and access control, along with redundant power solutions for businesses. With high Gigabit port densities, Gigabit SFP and 10-Gigabit SFP+ support, and advanced software solutions, these switches can act as either departmental access layer devices or core switches to form a multilevel network structured with backbone and centralised high-speed servers. Service providers can take advantage of the high SFP density switches to structure the cores of Fibre to the Building (FTTB) networks that they extend to the subscriber's sites.

- 20/48 10/100/1000BASE-T Ports or 20 SFP Slots
- 4 10-Gigabit SFP+ Ports Uplinks
- Physical Stack of Up to 12 Units, 576 Gigabit Ports
- 802.1p Priority Queues/Multi-Layer CoS
- Loopback Detection (LBD)
- L2/L3/L4 Multi-Layer Access Control
- Virtual Stack of Up to 32 Units Using Single IP Management
- 802.1X Guest VLAN
- IP Multicast Support for Bandwidth-Intensive Applications
- SSH/SSL Support
- Standard Image (SI) and for advanced features, Enhanced Image (EI)
- PoE / PoE+ versions available
- Telnet
- D-Link Single IP Management (SIM)
- Command Line Interface (CLI)
- Web-based GUI
- RMON Support
- Traffic Segmentation
- Supports Microsoft® NAP
- D-Link Safeguard Engine

Optional Accessories

Optional 10 Gbps SFP+ Transceivers
DEM-431XT
DEM-431XT-DD
DEM-432XT
DEM-432XT-DD

Optional 1 Gbps SFP Transceivers
DEM-310GT
DEM-311GT
DEM-312GT2
DEM-314GT
DEM-315GT
DEM-330T
DEM-330R
DEM-331T
DEM-331R
DEM-211
DEM-210

Optional 10 Gbps SFP+ Direct Attach Cables
DEM-CB100S
DEM-CB300SC

Optional Redundant Power Supplies
DPS-500
DPS-700

DGS-3620-28TC

- 10/100/1000BASE-T x 20
- Combo 10/100/1000BASE -T/SFP Ports x4
- 10-Gigabit SFP+ Slots x 4
- Optional Redundant Power Supply
- Physical Stack

DGS-3620-28SC

- SFP Slot x 20
- Combo 10/100/1000BASE -T/SFP Ports x4
- 10-Gigabit SFP+ Slots x 4
- Optional Redundant Power Supply
- Physical Stack

DGS-3620-28PC

- 10/100/1000BASE-T x 20
- Combo 10/100/1000BASE -T/SFP Ports x4
- 10-Gigabit SFP+ Slots x 4
- PoE Ports x 24
- Optional Redundant Power Supply
- Physical Stack

DGS-3620-52T

- 10/100/1000BASE-T x 48
- 10-Gigabit SFP+ Slots x 4
- Optional Redundant Power Supply
- Physical Stack

DGS-3620-52P

- 10/100/1000BASE-T x 48
- 10-Gigabit SFP+ Slots x 4
- PoE Ports x 48
- Optional Redundant Power Supply
- Physical Stack

DGS-3620 Series

Model		DGS-3620-28TC	DGS-3620-28SC	DGS-3620-28PC	DGS-3620-52T	DGS-3620-52P
Interfaces	Fast Ethernet					
	Gigabit Ethernet	20		20	48	48
	1GbE SFP Slots		20			
	10GbE SFP+ Slots	4	4	4	4	4
	Combo Gigabit/SFP+ Slots	4	4	4		
General Features	Stackability	Virtual Stack of Up to 32 Units Using Single IP Management. Physical Stack (Up to 12 units)				
	Stacking Speed (per Port)	20 Gbps (full duplex)				
	Switching Capacity	128 Gbps	128 Gbps	128 Gbps	176 Gbps	176 Gbps
	Forwarding Mode	Store-and-forward				
	Packet Buffer Memory	2MB				
	MAC Table	32K entries				
	Flow Control	802.3x, HOL Blocking Prevention				
	MDI/MDIX	Configurable				
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, ERPS				
	803.2ad Link Aggregation	Max. 32 Groups per Device. 8 Gigabit Ports or 2 10 Gigabit Ports per Group				
	Port Mirroring	One-to-one, many-to-one, flow based, RSPAN				
	Loopback Detection	•				
	Cable Diagnostics	•				
L3 Features	IP Interfaces	256				
	Routing Protocols	Static, RIP v1/v2, RIPng*, OSPF v2, OSPF v3*, BGP v4*, BGP+ v4*				
	Policy-Based Routing	•				
	Route Balancing	ECMP/WCMP				
	IPv6 Tunneling	Static*, ISATAP*, GRE*, 6to4*				
	VRRP	•				
Virtual LAN (VLAN)	VLANs	Static, 4 K Dynamic: 255				
	GVRP	•				
	Protocol VLAN (802.1v)	•				
	Double VLAN (Q-in-Q)	Port-based / Selective				
Multicasting	Groups	2K				
	Protocols	IGMP V1 / V2 / V3, PIM-SM, PIM-SM v6*, PIM-DM, PIM Spare-Dense, DVMRP v3*				
Quality of Service (QoS)	Standard	802.1p				
	Number of Queues	8				
	Mode	Strict / WRR/ Strict+WRR				
	CoS Handling	Switch Port, VLAN ID, 802.1p, MAC, IPv4, IPv6, DSCP, Port, Protocol, IPv6 Traffic Class, IPv6 Flow Label, Payload (User-Defined)				
	Bandwidth Control	Port-Based, Flow-Based				
Security	STP Security	BPDU Filtering, Root Restriction				
	Per-Port MAC Limitation	•				
	Static MAC	16				
	Storm Control	Broadcast / Multicast / Unicast				
	IP-MAC-Port Binding	500 Entries				
	DHCP Spoofing Prevention	•				
	ARP Spoofing Prevention	•				
	Traffic Segmentation	•				
	D-Link SafeGuard Engine	•				
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment				
	Web-Based Access Control (WAC)	Port-Based, Host-Based, Dynamic VLAN Assignment				
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN Assignment				
	Network Access Protection (NAP)	802.1x NAP, DHCP NAP				
	Guest VLAN	•				
	Switch Access	RADIUS / TACACS+, 4-Level User Account				
Access Control Lists (ACL)	Rules	Ingress: 6 profiles, 256 rules per profile, Egress: 4 profiles, 128 rules per profile				
	ACL Handling	Switch Port, VLAN ID, 802.1p, MAC, IPv4, IPv6, DSCP, Port, Protocol, IPv6 Traffic Class, IPv6 Flow Label, Payload (User-Defined)				
	Time-Based ACL	•				
Power over Ethernet	Standard			802.3af, 802.3at		802.3af, 802.3at
	PoE Ports			24		48
	PoE Budget			370 Watt		370 Watt
	Time-Based PoE			•		•
Management	Switch Access	Web GUI, Telnet				
	sFlow	•				
	SNMP	V1 / V2c / V3				
	DHCP	Server, Client, Relay (IPv4, IPv6)				
	RMON	•				
	TFTP Client	•				
	Syslog	•				
Physical & Environment	Power Supply	Internal				
	Max. Power Consumption	50.8 W	60.2 W	478 W	81 W	505.4 W
	Power Saving Technology	Green Ethernet				
	Operating Temperature	0 to 50 °C				
	Operating Humidity	10% to 90% RH				
	Dimensions (W x D x H)	441 x 310 x 44mm	441 x 310 x 44mm	441 x 380 x 44mm	441 x 380 x 44mm	441 x 380 x 44mm
	Mean Time Between Failures (MTBF)	287,763 Hours	299, 801 Hours	230, 619 Hours	255, 609 Hours	202, 462 Hours
Modules / Transceivers	10GbE SFP+ Transceivers	DEM-431XT, DEM-432XT				
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT				
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R				
Other	Redundant Power Supply	DPS-500	DPS-500	DPS-700	DPS-500	DPS-700

* Enhanced Image (EI) only

xStack Gigabit Layer 3+ Switches

DGS-3600 Series

The DGS-3600 Series consists of Layer 3 Gigabit switches that deliver performance, flexibility, security, multi-layer QoS and access, with redundant power option for SMB and enterprises. It is easy to deploy, simple to manage, and it can be virtually stacked with any switches supporting D-Link Single IP Management (SIM). It also supports 10-Gigabit physical stacking.

- D-Link Single IP Management (Virtual Stack)
- Internet Group Multicast Protocol (IGMP) Snooping
- Multicast Listener Discovery (MLD) Snooping
- L2 Protocol Tunneling
- 802.1v Protocol VLAN
- Double VLAN (Q-in-Q)
- Selective Q-in-Q
- Virtual Router Redundancy Protocol (VRRP)
- Ethernet-Ring Protection Switching (E-RPS)
- IPv6 Tunnel
- Gratuitous ARP
- Routing Information Protocol (RIP)
- Routing Information Protocol Next Generation (RIPng)
- Open Shortest Path First (OSPF)
- Border Gateway Protocol (BGP)
- Protocol Independent Protocol-Dense Mode (PIM-DM)
- Protocol Independent Protocol-Sparse Mode (PIM-SM)
- Distance Vector Multicast Routing Protocol (DVMRP)
- Quality of Service (QoS)
- D-Link Unidirectional Link Detection (DULD)
- Access Control List (ACL)
- Broadcast/Multicast/Unicast Storm Control
- Traffic Segmentation
- D-Link Safeguard Engine™
- IP-MAC-Port Binding
- 802.1X Access Control
- Web-Based Access Control (WAC)
- MAC-Based Access Control (MAC)
- Microsoft® Network Access Protection (NAP)
- Three-Level User Account
- sFlow
- Link Layer Discover Protocol (LLDP)
- LLDP-Media Endpoint Discovery (LLDP-MED)

DGS-3612G

- SFP Slot x 8
- Combo 1000BASE-T/SFP x 4
- Redundant Power Supply

DGS-3627

- 10/100/1000BASE-T x 20
- Combo 1000BASE-T/SFP x 4
- 10G Expansion Slot x 3
- Redundant Power Supply
- Physical Stack

DGS-3627G

- SFP Slot x 20
- Combo 1000BASE-T/SFP x 4
- 10G Expansion Slot x 3
- Redundant Power Supply
- Physical Stack

DGS-3650

- 10/100/1000BASE-T x 44
- Combo 1000BASE-T/SFP x 4
- 10G Expansion Slot x 2
- Redundant Power Supply
- Physical Stack

DGS-3600 Series

Model		DGS-3612G	DGS-3627	DGS-3627G	DGS-3650
Interfaces	Fast Ethernet				
	Gigabit Ethernet		20		44
	SFP Slots	8		20	
	Combo Gigabit/SFP Slots	4	4	4	4
	10GbE Slots		3	3	2
General Features	Stackability	Virtual Stack	Virtual + Physical Stack (up to 12 Units)		
	Stacking Speed (per Port)		20 Gbps		
	Switching Capacity	24 Gbps	108 Gbps	108 Gbps	136 Gbps
	Forwarding Mode	Store-and-Forward			
	Packet Buffer Memory	2 MB			
	MAC Table	16 K			
	Flow Control	802.3x, HOL Blocking Prevention			
	MDI/MDIX	Configurable			
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, ERPS			
	803.2ad Link Aggregation	32 Groups, 8 Gb Ports per Group / 2 10GbE Ports per Group			
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based, RSPAN			
	Loopback Detection	•			
	Cable Diagnostics	•			
L3 Features	IP Interfaces	256			
	Routing Protocols	Static, RIP v1/v2, RIPng, OSPF v2/v3, BGP v4			
	Policy-Based Routing	•			
	Route Balancing	ECMP/WCMP			
	IPv6 Tunneling	Static, ISATAP, GRE, 6to4			
	VRRP	•			
Virtual LAN (VLAN)	VLANs	Static: 4 K, Dynamic: 255			
	GVRP	•			
	Protocol VLAN (802.1v)	•			
	Double VLAN (Q-in-Q)	Port-Based / Selective			
Multicasting	Groups	1 K			
	Protocols	IGMP v1 / v2 / v3, PIM-SM, PIM-DM, PIM Spare-Dense, DVMRP v3, MLD v1			
Quality of Service (QoS)	Standard	802.1p, DSCP			
	Number of Queues	8			
	Mode	Strict / WRR / Strict+WRR			
	CoS Handling	Switch Port, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)			
	Bandwidth Control	Port-Based, Flow-Based			
Security	STP Security	BPDU Filtering, Root Restriction, UDLD			
	Per-Port MAC Limitation	•			
	Static MAC	16			
	Storm Control	Broadcast / Multicast / Unicast			
	IP-MAC-Port Binding	500 Entries			
	DHCP Spoofing Prevention	•			
	ARP Spoofing Prevention	•			
	Traffic Segmentation	•			
	D-Link SafeGuard Engine	•			
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment			
	Web-Based Access Control (WAC)	Port-Based, Host-Based, Dynamic VLAN Assignment			
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN Assignment			
	Network Access Protection (NAP)	802.1x NAP, DHCP NAP			
	Guest VLAN	•			
	Switch Access	RADIUS / TACACS+, 3-Level User Account			
Access Control Lists (ACL)	Rules	1,792			
	ACL Handling	Ether Type, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)			
	Time-Based ACL	•			
Power over Ethernet	Standard				
	PoE Ports				
	PoE Budget				
	Time-Based PoE				
Management	Switch Access	Web GUI, Telnet, Console			
	sFlow	•			
	SNMP	v1 / v2c / v3			
	DHCP	Server, Client, Relay (IPv4, IPv6)			
	RMON	•			
	TFTP Client	•			
	Syslog	•			
Physical & Environment	Power Supply	Internal			
	Max. Power Consumption	43.7 Watt	94.3 Watt	75.6 Watt	137.5 Watt
	Power Saving Technology				
	Operating Temperature	0 to 45 °C	0 to 45 °C	0 to 40 °C	0 to 40 °C
	Operating Humidity	10% to 90% RH			
	Dimensions (W x D x H)	441 x 389 x 44 mm	441 x 389 x 44 mm	441 x 389 x 44 mm	441 x 389 x 44 mm
	Mean Time Between Failures (MTBF)	342,646 Hours	287,631 Hours	289,946 Hours	246,838 Hours
Modules / Transceivers	10GbE Modules		DEM-410X, DEM-410CX		
	XFP Transceivers		DEM-421XT, DEM-422XT, DEM-423XT		
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT			
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R			
Other	Redundant Power Supply	DPS-500	DPS-500	DPS-500	DPS-500

xStack Gigabit Layer 2+ Switches

DGS-3400 Series

The xStack DGS-3400 Series consists of Layer 2 Gigabit switches that deliver performance, flexibility, security, multi-layer QoS and a redundant power supply option for SMB and enterprises.

- D-Link Single IP Management (Virtual Stack)
- Internet Group Multicast Protocol (IGMP) Snooping
- Multicast Listener Discovery (MLD) Snooping
- Loopback Detection (LBD)
- 802.1v Protocol VLAN
- Double VLAN (Q-in-Q)
- Selective Q-in-Q
- Routing Information Protocol (RIP)
- RIP Next Generation (RIPng)
- IGMP Snooping Multicast (ISM) VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- Broadcast/Multicast/Unicast Storm Control
- Traffic Segmentation
- D-Link Safeguard Engine™
- CPU Interface Filtering
- IP-MAC-Port Binding
- IPv6 Tunnel
- D-Link Unidirectional Link Detection (DULD)
- 802.1X Port-Based Access Control
- 802.1X Host-Based Access Control
- Web-Based Access Control (WAC)
- MAC-Based Access Control (MAC)
- Compound Authentication
- Microsoft® Network Access Protection (NAP)
- Three-Level User Account
- sFlow
- Link Layer Discovery Protocol (LLDP)
- LLDP-Media Endpoint Discovery (LLDP-MED)

DGS-3426P

- 10/100/1000BASE-T x 20 (PoE)
- Combo 1000BASE-T/SFP x 4
- 10G Expansion Slots x 2
- Redundant Power Supply
- Physical Stack

DGS-3427

- 10/100/1000BASE-T x 20
- Combo 1000BASE-T/SFP x 4
- 10G Expansion Slots x 3
- Redundant Power Supply
- Physical Stack

DGS-3450

- 10/100/1000BASE-T x 44
- Combo 1000BASE-T/SFP x 4
- 10G Expansion Slots x 2
- Redundant Power Supply
- Physical Stack

DGS-3400 Series

Model		DGS-3426P	DGS-3427	DGS-3450
Interfaces	Fast Ethernet			
	Gigabit Ethernet	20	20	44
	SFP Slots			
	Combo Gigabit/SFP Slots	4	4	4
	10GbE Slots	2	3	2
General Features	Stackability	Virtual Stack	Virtual + Physical Stack (up to 12 Units)	
	Stacking Speed (per Port)		20 Gbps	
	Switching Capacity	88 Gbps	108 Gbps	136 Gbps
	Forwarding Mode	Store-and-Forward		
	Packet Buffer Memory	750 K		
	MAC Table	8 K		
	Flow Control	802.3x, HOL Blocking Prevention		
	MDI/MDIX	Configurable		
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, ERPS		
	803.2ad Link Aggregation	32 Groups, 8 Gb Ports per Group / 2 10GbE Ports per Group		
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based, RSPAN		
	Loopback Detection	•		
	Cable Diagnostics	•		
L3 Features	IP Interfaces	64		
	Routing Protocols	Static, RIP v1/v2, RIPng		
	Policy-Based Routing	Based on ACL		
	Route Balancing			
	IPv6 Tunneling	Static, ISATAP, 6to4		
	VRRP			
Virtual LAN (VLAN)	VLANs	Static: 4 K, Dynamic: 255		
	GVRP	•		
	Protocol VLAN (802.1v)	•		
	Double VLAN (Q-in-Q)	Port-Based / Selective		
Multicasting	Groups	1 K		
	Protocols	IGMP v1 / v2 / v3, MLD v1, v2 Snooping		
Quality of Service (QoS)	Standard	802.1p, DSCP		
	Number of Queues	8		
	Mode	Strict / WRR / Strict+WRR		
	CoS Handling	Switch Port, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)		
	Bandwidth Control	Port-Based, Flow-Based		
Security	STP Security	BPDU Filtering, Root Restriction, UDLD		
	Per-Port MAC Limitation	•		
	Static MAC	16		
	Storm Control	Broadcast / Multicast / Unicast		
	IP-MAC-Port Binding	511 Entries		
	DHCP Spoofing Prevention	•		
	ARP Spoofing Prevention	•		
	Traffic Segmentation	•		
	D-Link SafeGuard Engine	•		
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment		
	Web-Based Access Control (WAC)	Port-Based, Host-Based, Dynamic VLAN Assignment		
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN Assignment		
	Network Access Protection (NAP)	802.1x NAP, DHCP NAP		
	Guest VLAN	•		
	Switch Access	RADIUS / TACACS+, 3-Level User Account		
Access Control Lists (ACL)	Rules	768		
	ACL Handling	Ether Type, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)		
	Time-Based ACL	•		
Power over Ethernet	Standard	802.3af		
	PoE Ports	24		
	PoE Budget	370 Watt		
	Time-Based PoE			
Management	Switch Access	Web GUI, Telnet, Console		
	sFlow	•		
	SNMP	v1 / v2c / v3		
	DHCP	Server, Client, Relay (IPv4, IPv6)		
	RMON	•		
	TFTP Client	•		
	Syslog	•		
Physical & Environment	Power Supply	Internal		
	Max. Power Consumption	542.3 Watt	95.4 Watt	148.9 Watt
	Power Saving Technology			
	Operating Temperature	0 to 40 °C		
	Operating Humidity	10% to 90% RH		
	Dimensions (W x D x H)	441 x 389 x 44 mm	441 x 389 x 44 mm	441 x 389 x 44 mm
	Mean Time Between Failures (MTBF)	373,693 Hours	474,795 Hours	402,096 Hours
Modules / Transceivers	10GbE Modules	DEM-410X, DEM-410CX		
	XFP Transceivers	DEM-421XT, DEM-422XT, DEM-423XT		
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT		
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R		
Other	Redundant Power Supply	DPS-600	DPS-500	DPS-500

xStack Fast Ethernet Layer 2+ Switches

DES-3528/DES-3552 Series

The xStack DES-3528/52 Series consists of L2 10/100Mbps switches that deliver performance, flexible expansion, robust security, multi-layer QoS and a redundant power supply option.

- D-Link Single IP Management (Virtual Stack)
- Loopback Detection (LBD)
- Internet Group Management Protocol (IGMP) Snooping
- Multicast Listener Discovery (MLD) Snooping
- Policy-Based Routing
- 802.1v Protocol VLAN
- Double VLAN (Q-in-Q)
- Selective Q-in-Q
- IGMP Snooping Multicast (ISM) VLAN
- Asymmetric VLAN
- Voice VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- Traffic Segmentation
- Broadcast/Multicast/Unicast Storm Control
- ARP Spoofing Prevention
- BPDU Attack Protection
- 802.1X Port/Host-Based Access Control
- Web-Based Access Control (WAC)
- MAC-Based Access Control (MAC)
- Multiple Authentication
- Guest VLAN
- Microsoft® Network Access Protection (NAP)
- Three-Level User Accounts

DES-3528

- 10/100BASE-TX x 24
- Combo 1000BASE-T/SFP x 2
- 1000BASE-T/Stacking Port x 2
- AC Power Supply
- Redundant Power Supply
- Physical Stack

DES-3528P

- 10/100BASE-TX x 24 (PoE)
- Combo 1000BASE-T/SFP x 2
- 1000BASE-T/Stacking Port x 2
- AC Power Supply
- Redundant Power Supply
- Physical Stack

DES-3552

- 10/100BASE-TX x 48
- Combo 1000BASE-T/SFP x 2
- 1000BASE-T/Stacking Port x 2
- AC Power Supply
- Redundant Power Supply
- Physical Stack

DES-3528/52 Series

Model		DES-3528	DES-3528P	DES-3552
Interfaces	Fast Ethernet	24	24	48
	Gigabit Ethernet	2	2	2
	SFP Slots			
	Combo Gigabit/SFP Slots	2	2	2
	10GbE Slots			
General Features	Stackability	Virtual + Physical Stack (up to 8 Units)		
	Stacking Speed (per Port)	2 Gbps		
	Switching Capacity	12.8 Gbps	12.8 Gbps	17.6 Gbps
	Forwarding Mode	Store-and-Forward		
	Packet Buffer Memory	1 M		
	MAC Table	16 K		
	Flow Control	802.3x, HOL Blocking Prevention		
	MDI/MDIX	Configurable		
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, ERPS		
	803.2ad Link Aggregation	8 Groups, 8 Ports per Group		
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based, RSPAN		
	Loopback Detection	•		
	Cable Diagnostics	•		
L3 Features	IP Interfaces	16		
	Routing Protocols	Static		
	Policy-Based Routing	Based on ACL		
	Route Balancing			
	IPv6 Tunneling			
	VRRP			
Virtual LAN (VLAN)	VLANs	Static: 4 K, Dynamic: 255		
	GVRP	•		
	Protocol VLAN (802.1v)	•		
	Double VLAN (Q-in-Q)	Port-Based / Selective		
Multicasting	Groups	256		
	Protocols	IGMP v1 / v2 / v3, MLD v1, v2 Snooping		
Quality of Service (QoS)	Standard	802.1p, DSCP		
	Number of Queues	8		
	Mode	Strict / WRR / Strict+WRR		
	CoS Handling	Switch Port, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)		
	Bandwidth Control	Port-Based, Flow-Based		
Security	STP Security	BPDU Filtering, Root Restriction, UDLD		
	Per-Port MAC Limitation	•		
	Static MAC	64		
	Storm Control	Broadcast / Multicast / Unicast		
	IP-MAC-Port Binding	500 Entries		
	DHCP Spoofing Prevention	•		
	ARP Spoofing Prevention	•		
	Traffic Segmentation	•		
	D-Link SafeGuard Engine	•		
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment		
	Web-Based Access Control (WAC)	Port-Based, Host-Based, Dynamic VLAN Assignment		
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN Assignment		
	Network Access Protection (NAP)	802.1x NAP		
	Guest VLAN	•		
	Switch Access	RADIUS / TACACS+, 3-Level User Account		
Access Control Lists (ACL)	Rules	1,792		
	ACL Handling	Ether Type, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)		
	Time-Based ACL	•		
Power over Ethernet	Standard		802.3af, 802.3at	
	PoE Ports		802.3af: Ports 1-24 802.3at: Ports 1-8	
	PoE Budget		370 Watt	
	Time-Based PoE			
Management	Switch Access	Web GUI, Telnet, Console		
	sFlow			
	SNMP	v1 / v2c / v3		
	DHCP	Server, Client, Relay (IPv4, IPv6)		
	RMON	•		
	TFTP Client	•		
	Syslog	•		
Physical & Environment	Power Supply	Internal		
	Max. Power Consumption	20.5 Watt	505.1 Watt	33.1 Watt
	Power Saving Technology			
	Operating Temperature	0 to 40 °C	0 to 50 °C	0 to 45 °C
	Operating Humidity	10% to 90% RH		
	Dimensions (W x D x H)		441 x 210 x 44 mm	
	Mean Time Between Failures (MTBF)	203,785 Hours	345,226 Hours	380,412 Hours
Modules / Transceivers	10GbE Modules			
	XFP Transceivers			
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-210, DEM-211		
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R		
Other	Redundant Power Supply	DPS-200	DPS-600	DPS-200

xStack Gigabit Layer 2 Security Switches

DGS-3200 Series

The DGS-3200 Series consists of Security Gigabit switches that deliver high performance, flexible expansion and robust security. It executes firm network security and provides ACL functionalities to secure the internal IT network against external viruses.

- D-Link Single IP Management (Virtual Stack)
- Internet Group Multicast Protocol (IGMP) Snooping
- Multicast Listener Discovery (MLD) Snooping
- 802.1v Protocol VLAN
- IGMP Snooping Multicast (ISM) VLAN
- VLAN Trunking
- Private VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- Broadcast/Multicast/Unicast Storm Control
- Traffic Segmentation
- D-Link Safeguard Engine™
- IP-MAC-Port Binding
- Microsoft® Network Access Protection (NAP)
- ARP Spoofing Prevention
- 802.1X Port-Based Access Control
- 802.1X Host-Based Access Control
- Web-Based Access Control (WAC)
- MAC-Based Access Control (MAC)
- Compound Authentication
- Guest VLAN
- Simple Network Management Protocol (SNMP)

DGS-3200-10

- 10/100/1000BASE-T x 8
- Combo 1000BASE-T/SFP x 2
- Fanless
- 11-inch, 1U Desktop

DGS-3200-24

- 10/100/1000BASE-T x 20
- Combo 1000BASE-T/SFP x 4
- Smart Fan x 2
- Redundant Power Supply
- 19-inch, 1U Rack-Mount

DGS-3200 Series

Model		DGS-3200-10	DGS-3200-24
Interfaces	Fast Ethernet		
	Gigabit Ethernet	8	20
	SFP Slots		
	Combo Gigabit/SFP Slots	2	4
	10GbE Slots		
General Features	Stackability	Virtual Stack (up to 32 Units)	
	Stacking Speed (per Port)		
	Switching Capacity	20 Gbps	48 Gbps
	Forwarding Mode	Store-and-Forward	
	Packet-Buffer Memory	128 K	768 K
	MAC Table	8 K	
	Flow Control	802.3x, HOL-Blocking Prevention	
	MDI/MDIX	Configurable	
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s	
	803.2ad Link Aggregation	5 Groups 8 Ports per Group	12 Groups 8 Ports per Group
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based	
	Loopback Detection	•	
	Cable Diagnostics	•	
L3 Features	IP Interfaces		
	Routing Protocols		
	Policy-Based Routing		
	Route-Balancing		
	IPv6 Tunneling		
	VRRP		
Virtual LAN (VLAN)	VLANs	Static: 4 K, Dynamic: 255	
	GVRP	•	
	Protocol VLAN (802.1v)	•	
	Double VLAN (Q-in-Q)		
Multicasting	Groups	256	
	Protocols	IGMP v1 / v2 / v3, MLD v1, v2 Snooping	
Quality of Service (QoS)	Standard	802.1p, DSCP	
	Number of Queues	8	
	Mode	Strict / WRR	
	CoS Handling	LAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload	
	Bandwidth Control	Port-Based, Flow-Based	
Security	STP Security	BPDU Filtering, Root Restriction	
	Per-Port MAC Limitation	•	
	Static MAC	64	
	Storm Control	Broadcast / Multicast / Unicast	
	IP-MAC-Port-Binding	512 Entries	
	DHCP Spoofing Prevention	•	
	ARP Spoofing Prevention	•	
	Traffic Segmentation	•	
	D-Link SafeGuard Engine	•	
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment	
	Web-Based Access Control (WAC)	Port-Based, Host-Based, Dynamic VLAN Assignment	
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN Assignment	
	Network Access Protection (NAP)	802.1x NAP, DHCP NAP	
	Guest VLAN	•	
	Switch Access	RADIUS / TACACS+, 3-Level User Account	
Access Control Lists (ACL)	Rules	1,792	
	ACL Handling	VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload	
	Time-Based ACL	•	
Power over Ethernet	Standard		
	PoE Ports		
	PoE-Budget		
	Time-Based PoE		
Management	Switch Access	Web GUI, Telnet, Console	
	sFlow		
	SNMP	v1 / v2c / v3	
	DHCP	Client, Relay (IPv4, IPv6)	
	RMON	•	
	TFTP Client	•	
	Syslog	•	
Physical & Environment	Power Supply	Internal	
	Max. Power Consumption	20.9 Watt	41.9 Watt
	Power Saving Technology	Green Ethernet	
	Operating Temperature	0 to 40 °C	0 to 50 °C
	Operating Humidity	5% to 95% RH	
	Dimensions (W x D x H)	280 x 180 x 43 mm	440 x 210 x 44 mm
	Mean Time-Between Failures (MTBF)	726,077 Hours	502,576 Hours
Modules / Transceivers	10GbE Modules		
	XFP Transceivers		
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-210, DEM-211	
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R	
Other	Redundant Power Supply	DPS-200	DPS-200

xStack Fast Ethernet Layer 2 Metro Ethernet

DES-3200 Series

The DES-3200 Series Layer 2 xStack Managed Switch is designed for the Metro ETTX and FTTX market. This series provides 8/16/24 100Mbps Fast Ethernet connections plus 2/4 combo Gigabit/SFP ports.

- D-Link Single IP Management (Virtual Stack)
- Internet Group Multicast Protocol (IGMP) Snooping
- Multicast Listener Discovery (MLD) Snooping
- Ethernet Ring Protection Switching (ERPS)
- Gratuitous Address Resolution Protocol (ARP)
- 802.3ah Ethernet Link OAM
- 802.1v Protocol VLAN
- VLAN Trunking
- Asymmetric VLAN
- Double VLAN (Q-in-Q)
- Selective Q-in-Q
- IGMP Snooping Multicast (ISM) VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- CPU Interface Filtering
- 802.1ag Connectivity Fault Management (CFM)
- Broadcast/Multicast/Unicast Storm Control
- Traffic Segmentation
- D-Link Safeguard Engine™
- IP-MAC-Port Binding (IMPB)
- ARP Spoofing Prevention
- BPDU Attack Protection
- DHCP Server Screening
- 802.1X Port-Based Access Control
- 802.1X Host-Based Access Control
- Per Queue Bandwidth Control

DES-3200-10

- 10/100BASE-TX x 8
- Combo 1000BASE-T/SFP x 2
- Fanless
- 9-inch, 1U Desktop

DES-3200-18

- 10/100BASE-TX x 16
- Combo 1000BASE-T/SFP x 2
- Fanless
- 9-inch, 1U Desktop

DES-3200-28F

- 100BASE-X SFP x 24
- Combo 1000BASE-T/SFP x 4
- DC Fan x 1
- 19- Inch, 1U Rack-Mount

DES-3200 Series

Model		DES-3200-10	DES-3200-18	DES-3200-28F
Interfaces	Fast Ethernet	8	16	
	Gigabit Ethernet			
	SFP Slots			24
	Combo Gigabit/SFP Slots	2	2	4
	10GbE Slots			
General Features	Stackability	Virtual Stack (up to 32 Units)		
	Stacking Speed (per Port)			
	Switching Capacity	5.6 Gbps	7.2 Gbps	12.8 Gbps
	Forwarding Mode	Store-and-Forward		
	Packet Buffer Memory	384 K		
	MAC Table	8 K		
	Flow Control	802.3x, HOL Blocking Prevention		
	MDI/MDIX	Configurable		
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, ERPS		
	803.2ad Link Aggregation	5 Groups 8 Ports Per Group	9 Groups 8 Ports per Group	14 Groups 8 Ports per Group
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based		
	Loopback Detection	•		
	Cable Diagnostics	•		
L3 Features	IP Interfaces			
	Routing Protocols			
	Policy-Based Routing			
	Route Balancing			
	IPv6 Tunneling			
	VRRP			
Virtual LAN (VLAN)	VLANs	Static: 4 K, Dynamic: 255		
	GVRP	•		
	Protocol VLAN (802.1v)	•		
	Double VLAN (Q-in-Q)	•		
Multicasting	Groups	1 K		
	Protocols	IGMP v1 / v2 / v3, MLD v1, v2 Snooping		
Quality of Service (QoS)	Standard	802.1p, DSCP		
	Number of Queues	4		
	Mode	Strict / WRR		
	CoS Handling	Switch Port, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)		
	Bandwidth Control	Port-Based, Flow-Based		
Security	STP Security	BPDU Filtering, Root Restriction, UDLD		
	Per-Port MAC Limitation	•		
	Static MAC	64		
	Storm Control	Broadcast / Multicast / Unicast		
	IP-MAC-Port Binding	500 Entries		
	DHCP Spoofing Prevention	•		
	ARP Spoofing Prevention	•		
	Traffic Segmentation	•		
	D-Link SafeGuard Engine	•		
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment		
	Web-Based Access Control (WAC)			
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN Assignment		
	Network Access Protection (NAP)	802.1x NAP, DHCP NAP		
	Guest VLAN	•		
	Switch Access	RADIUS / TACACS+, 3-Level User Account		
Access Control Lists (ACL)	Rules	512		
	ACL Handling	Ether Type, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)		
	Time-Based ACL	•		
Power over Ethernet	Standard			
	PoE Ports			
	PoE Budget			
	Time-Based PoE			
Management	Switch Access	Web GUI, Telnet, Console		
	sFlow			
	SNMP	v1 / v2c / v3		
	DHCP	Client, Relay (IPv4, IPv6)		
	RMON	•		
	TFTP Client	•		
	Syslog	•		
Physical & Environment	Power Supply	Internal		
	Max. Power Consumption	12.7 Watt	13.2 Watt	46.7 Watt
	Power Saving Technology			
	Operating Temperature	0 to 40 °C		
	Operating Humidity	5% to 95% RH		
	Dimensions (W x D x H)	228.5 x 180 x 44 mm	228.5 x 180 x 44 mm	441 x 207 x 44 mm
	Mean Time Between Failures (MTBF)	873,750 Hours	743,115 Hours	447,268 Hours
Modules/ Transceivers	10GbE Modules			
	XFP Transceivers			
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-210, DEM-211		
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R		
Other	Redundant Power Supply			

xStack Layer 2 Stackable Gigabit Switches

DGS-3120 Series

The DGS-3120 Series is the ideal entry-level stackable solution for businesses looking to upgrade their network. Its comprehensive security features and PoE support make it suitable for any business environment where manageability, reliability and high port densities are necessary at an affordable price. Each of the five switch models in this series is available with either the Standard Image (SI), which provides sophisticated features such as Quality of Service (QoS), traffic shaping and L2 multicasting or the Enhanced Image (EI), which provides advanced features like static routing and IPv6.

- Built-in 10 GbE Stacking Ports Built In
- 40Gb Stacking Bandwidth
- Stackable up to 6 Units
- Up to 288 Gigabit Ports in a Single Stack
- PoE/PoE+ Versions Available
- Comprehensive Security
- IPv6 Ready
- Microsoft NAP Compatible
- sFlow
- Redundant Power Supply Options
- SD Card Slot for Configuration and System Images
- Easy to Configure Through a Web Interface
- Power Saving Technology

Optional Accessories

DEM-CB50	50 cm. 10GbE stacking cable
DEM-CB100	100 cm. 10GbE stacking cable

DGS-3120-24TC

- 10/100/1000Base-T x 20
- Combo 1000Base-T/SFP x 4
- 10 GbE Stacking Ports x 2
- Redundant Power Supply

DGS-3120-24PC

- 10/100/1000Base-T x 20 (PoE)
- Combo 1000Base-T/SFP x 4
- 10 GbE Stacking Ports x 2
- 802.3at PoE+
- Redundant Power Supply

DGS-3120-24SC

- SFP Slots x 16
- Combo 1000Base-T/SFP x 8
- 10 GbE Stacking Ports x 2
- Redundant Power Supply

DGS-3120-48TC

- 10/100/1000Base-T x 44
- Combo 1000Base-T/SFP x 4
- 10 GbE Stacking Ports x 2
- Redundant Power Supply

DGS-3120-48PC

- 10/100/1000Base-T x 44 (PoE)
- Combo 1000Base-T/SFP x 4
- 10 GbE Stacking Ports x 2
- 802.3at PoE+
- Redundant Power Supply

DGS-3120 Series

Model		DGS-3120-24TC	DGS-3120-24PC	DGS-3120-24SC	DGS-3120-48TC	DGS-3120-48PC
Interfaces	Fast Ethernet					
	Gigabit Ethernet	20	20		44	44
	SFP Slots			16		
	Combo Gigabit/SFP Slots	4	4	8	4	4
	10GbE Slots					
General Features	Stackability	Physical Stack (up to 6 Units)				
	Stacking Speed (per Port)	10 Gbps				
	Switching Capacity	88 Gbps	88 Gbps	88 Gbps	136 Gbps	136 Gbps
	Forwarding Mode	Store-and-Forward				
	Packet Buffer Memory	2 M				
	MAC Table	16 K				
	Flow Control	802.3x, HOL Blocking Prevention				
	MDI/MDIX	Configurable				
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s, ERPS*				
	803.2ad Link Aggregation	32 Groups 8 Gb Ports per Group				
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, RSPAN, Flow-Based				
	Loopback Detection	•				
	Cable Diagnostics	•				
L3 Features	IP Interfaces	16*				
	Routing Protocols	Static*				
	Policy-Based Routing					
	Route Balancing					
	IPv6 Tunneling					
	VRRP					
Virtual LAN (VLAN)	VLANs	4 K				
	GVRP	•				
	Protocol VLAN (802.1v)	•				
	Double VLAN (Q-in-Q)	• *				
Multicasting	Groups	1024				
	Protocols	IGMP v1 / v2 / v3, MLD v1, v2 Snooping				
Quality of Service (QoS)	Standard	802.1p, DSCP				
	Number of Queues	4				
	Mode	Strict / WRR				
	CoS Handling	Switch Port, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)				
	Bandwidth Control	Port-Based, Flow-Based				
Security	STP Security	BPDU Filtering, Root Restriction				
	Per-Port MAC Limitation	•				
	Static MAC	64				
	Storm Control	Broadcast / Multicast / Unicast				
	IP-MAC-Port Binding	510 Entries*				
	DHCP Spoofing Prevention	• *				
	ARP Spoofing Prevention	•				
	Traffic Segmentation	•				
	D-Link SafeGuard Engine	•				
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host Based, Dynamic VLAN/ACL/QoS Assignment				
	Web-Based Access Control (WAC)	Port-Based, Host Based, Dynamic VLAN/ACL/QoS Assignment				
	MAC-Based Access Control (MAC)	Port-Based, Host Based, Dynamic VLAN/ACL/QoS Assignment				
	Network Access Protection (NAP)	801.1X NAP, DHCP NAP				
	Guest VLAN	•				
	Switch Access	RADIUS / TACACS+, 4-Level User Account				
Access Control Lists (ACL)	Rules	1500				
	ACL Handling	Ether Type, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-Defined)				
	Time-Based ACL	•				
Power over Ethernet	Standard		802.3af, 802.3at			802.3af, 802.3at
	PoE Ports		'1-20			'1-44
	PoE Budget		370 Watt			370 Watt
	Time-Based PoE		•			•
Management	Switch Access	Web GUI, Telnet, Console				
	sFlow	• *				
	SNMP	v1 / v2c / v3				
	DHCP	Client, Relay				
	RMON	•				
	TFTP Client	• (IPv4, IPv6*)				
	Syslog	•				
Physical & Environment	Power Supply	Internal				
	Max. Power Consumption	40.5 Watt	482.7 Watt	34.1 Watt	67.1 Watt	516.5 Watt
	Power Saving Technology	Green Ethernet				
	Operating Temperature	0 to 50 °C				
	Operating Humidity	10% to 90% RH				
	Dimensions (W x D x H)	440 x 210 x 44 mm	440 x 310 x 44 mm	440 x 210 x 44 mm	440 x 310 x 44 mm	440 x 430 x 44 mm
	Mean Time Between Failures (MTBF)	TBD	TBD	TBD	TBD	TBD
Modules / Transceivers	10GbE Modules					
	XFP Transceivers					
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-210, DEM-211				
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R				
Other	Redundant Power Supply	DPS-200	DPS-700	DPS-200	DPS-500	DPS-700

* Enhanced Image (EI) only.

Gigabit Layer 2 Managed Switches

DGS-3100 Series

The DGS-3100 Series consists of managed Layer 2 Gigabit stackable switches designed to provide feature-rich, low-cost switching in the entry-level network management category.

- Internet Group Multicast Protocol (IGMP) Snooping
- Multicast Listener Discovery (MLD) Snooping
- Loopback Detection (LBD)
- GARP VLAN Registration Protocol (GVRP)
- Quality of Service (QoS)
- Access Control List (ACL)
- ARP Spoofing Prevention
- Broadcast/Multicast/Unicast Storm Control
- D-Link Safeguard Engine™
- Microsoft® Network Access Protection (NAP)
- Guest VLAN
- 802.1X Port-Based Access Control
- 802.1X Host-Based Access Control
- MAC-Based Access Control (MAC)
- Link Layer Discovery Protocol (LLDP)

DGS-3100-24

- 10/100/1000BASE-T x 20
- Combo 1000BASE-T/SFP x 4
- Redundant Power Supply
- Physical Stack

DGS-3100-24TG

- 10/100/1000BASE-T x 8
- SFP Slots x 16
- Redundant Power Supply
- Physical Stack

DGS-3100-48

- 10/100/1000BASE-T x 44
- Combo 1000BASE-T/SFP x 4
- Redundant Power Supply
- Physical Stack

DGS-3100 Series

Model		DGS-3100-24	DGS-3100-24TG	DGS-3100-48
Interfaces	Fast Ethernet			
	Gigabit Ethernet	20	8	44
	SFP Slots		16	
	Combo Gigabit/SFP Slots	4		4
	10GbE Slots			
General Features	Stackability	Physical Stack (up to 6 Units)		
	Stacking Speed (per Port)	10 Gbps		
	Switching Capacity	68 Gbps	68 Gbps	116 Gbps
	Forwarding Mode	Store-and-Forward		
	Packet Buffer Memory	768 K	768 K	1.5 M
	MAC Table	8 K		
	Flow Control	802.3x, HOL Blocking Prevention		
	MDI/MDIX	Configurable		
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s		
	803.2ad Link Aggregation	32 Groups 8 Gb Ports per Group		
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both		
	Loopback Detection	•		
	Cable Diagnostics	•		
L3 Features	IP Interfaces			
	Routing Protocols			
	Policy-Based Routing			
	Route Balancing			
	IPv6 Tunneling			
	VRRP			
Virtual LAN (VLAN)	VLANs	Static: 255, Dynamic: 255		
	GVRP	•		
	Protocol VLAN (802.1v)			
	Double VLAN (Q-in-Q)			
Multicasting	Groups	128		
	Protocols	IGMP v1 / v2 / v3, MLD v1, v2 Snooping		
Quality of Service (QoS)	Standard	802.1p, DSCP		
	Number of Queues	4		
	Mode	Strict / WRR		
	CoS Handling	Switch Port, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port		
	Bandwidth Control	Port-Based, Flow-Based		
Security	STP Security	BPDU Filtering, Root Restriction		
	Per-Port MAC Limitation	•		
	Static MAC	16		
	Storm Control	Broadcast / Multicast / Unicast		
	IP-MAC-Port Binding	500 Entries		
	DHCP Spoofing Prevention			
	ARP Spoofing Prevention	•		
	Traffic Segmentation			
	D-Link SafeGuard Engine	•		
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment		
	Web-Based Access Control (WAC)			
	MAC-Based Access Control (MAC)	Port-Based, Host-Based, Dynamic VLAN Assignment		
	Network Access Protection (NAP)	DHCP NAP		
	Guest VLAN	•		
	Switch Access	RADIUS / TACACS+, 3-Level User Account		
Access Control Lists (ACL)	Rules	240		
	ACL Handling	Ether Type, VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port		
	Time-Based ACL	•		
Power over Ethernet	Standard			
	PoE Ports			
	PoE Budget			
	Time-Based PoE			
Management	Switch Access	Web GUI, Telnet, Console		
	sFlow			
	SNMP	v1 / v2c / v3		
	DHCP	Client, Relay (IPv4, IPv6)		
	RMON	•		
	TFTP Client	•		
	Syslog	•		
Physical & Environment	Power Supply	Internal		
	Max. Power Consumption	37.9 Watt	26.5 Watt	77.4 Watt
	Power Saving Technology	Green Ethernet		
	Operating Temperature	0 to 45 °C	0 to 45 °C	0 to 45 °C
	Operating Humidity	10% to 90% RH		
	Dimensions (W x D x H)	440 x 210 x 44 mm	440 x 210 x 44 mm	440 x 310 x 44 mm
	Mean Time Between Failures (MTBF)	212,377 Hours	195,655 Hours	103,924 Hours
Modules / Transceivers	10GbE Modules			
	XFP Transceivers			
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-210, DEM-211		
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R		
Other	Redundant Power Supply	DPS-200	DPS-200	DPS-500

Fast Ethernet Layer 2 Managed Switches

DES-3028/DES-3052 Series

The DES-3028 / DES-3052 Series provides flexible choices of 24 or 48 Fast Ethernet ports, with or without Power over Ethernet. Each switch is equipped with four Gigabit Ethernet ports including two combo SFPs that are capable of both Gigabit and Fast Ethernet (100BASE-FX) fibre connections for user-specific applications.

- D-Link Single IP Management (Virtual Stack)
- Internet Group Multicast Protocol (IGMP) Snooping
- Multicast Listener Discovery (MLD) Snooping
- Asymmetric VLAN
- IGMP Snooping Multicast (ISM) VLAN
- Double VLAN (Q-in-Q)
- Quality of Service (QoS)
- Access Control List (ACL)
- CPU Interface Filtering
- Broadcast/Multicast/Unicast Storm Control
- Traffic Segmentation
- D-Link Safeguard Engine™
- IP-MAC-Port Binding (IMPB)
- Microsoft® Network Access Protection
- 802.1X Port-Based Access Control
- 802.1X Host-Based Access Control
- Guest VLAN
- Simple Network Management Protocol (SNMP)
- Cable Diagnostics

DES-3028

- 10/100BASE-TX x 24
- 10/100/1000BASE-T x 2
- Combo 1000BASE-T/SFP x 2
- Fanless

DES-3028P

- 10/100BASE-TX x 24 (PoE)
- 10/100/1000BASE-T x 2
- Combo 1000BASE-T/SFP x 2
- DC Fan x 2

DES-3052

- 10/100BASE-TX x 48
- 10/100/1000BASE-T x 2
- Combo 1000BASE-T/SFP x 2
- Fanless

DES-3052P

- 10/100BASE-TX x 48 (PoE)
- 10/100/1000BASE-T x 2
- Combo 1000BASE-T/SFP x 2
- DC Fan x 3

DES-3028/52 Series

Model		DES-3028	DES-3028P	DES-3052	DES-3052P
Interfaces	Fast Ethernet	24	24	48	48
	Gigabit Ethernet	2	2	2	2
	SFP Slots				
	Combo Gigabit/SFP Slots	2	2	2	2
	10GbE Slots				
General Features	Stackability	Virtual Stack (up to 32 Units)			
	Stacking Speed (per Port)				
	Switching Capacity	12.8 Gbps	12.8 Gbps	17.6 Gbps	17.6 Gbps
	Forwarding Mode	Store-and-Forward			
	Packet Buffer Memory	512 K	512 K	512 K	512 K
	MAC Table	8 K			
	Flow Control	802.3x, HOL Blocking Prevention			
	MDI/MDIX	Configurable			
L2 Features	Loop Protection	802.1Q, 802.1w, 802.1s			
	803.2ad Link Aggregation	6 Groups 8 Ports per Group			
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both, Flow-Based			
	Loopback Detection	•			
	Cable Diagnostics	•			
L3 Features	IP Interfaces				
	Routing Protocols				
	Policy-Based Routing				
	Route Balancing				
	IPv6 Tunneling				
	VRRP				
Virtual LAN (VLAN)	VLANs	Static: 4 K, Dynamic: 255			
	GVRP	•			
	Protocol VLAN (802.1v)				
	Double VLAN (Q-in-Q)	•			
Multicasting	Groups	128			
	Protocols	IGMP v1 / v2, MLD v1, v2 Snooping			
Quality of Service (QoS)	Standard	802.1p, DSCP			
	Number of Queues	4			
	Mode	Strict / WRR			
	CoS Handling	VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-defined)			
	Bandwidth Control	Port-Based, Flow-Based			
Security	STP Security	BPDU Filtering, Root Restriction			
	Per-Port MAC Limitation	•			
	Static MAC	16			
	Storm Control	Broadcast / Multicast / Unicast			
	IP-MAC-Port Binding	500 Entries			
	DHCP Spoofing Prevention	•			
	ARP Spoofing Prevention	•			
	Traffic Segmentation	•			
	D-Link SafeGuard Engine	•			
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment			
	Web-Based Access Control (WAC)				
	MAC-Based Access Control (MAC)				
	Network Access Protection (NAP)	802.1x NAP, DHCP NAP			
	Guest VLAN	•			
	Switch Access	RADIUS / TACACS+			
Access Control Lists (ACL)	Rules	256			
	ACL Handling	VLAN ID, 802.1p, MAC, IP, IPv6, DSCP, Port, Protocol, Payload (User-defined)			
	Time-Based ACL	•			
Power over Ethernet	Standard		802.3af		802.3af
	PoE Ports		1-24		1-44
	PoE Budget		185 Watt		370 Watt
	Time-Based PoE				
Management	Switch Access	Web GUI, Telnet, Console			
	sFlow				
	SNMP	v1 / v2c / v3			
	DHCP	Client, Relay			
	RMON	•			
	TFTP Client	•			
	Syslog	•			
Physical & Environment	Power Supply	Internal			
	Max. Power Consumption	18.8 Watt	217 Watt	25.5 Watt	395 Watt
	Power Saving Technology				
	Operating Temperature	0 to 40 °C			
	Operating Humidity	5% to 95% RH			
	Dimensions (W x D x H)	441 x 207 x 44 mm	441 x 207 x 44 mm	441 x 309 x 44 mm	441 x 309 x 44 mm
	Mean Time Between Failures (MTBF)	248,271 Hours	196,033 Hours	292,133 Hours	169,182 Hours
Modules/ Transceivers	10GbE Modules				
	XFP Transceivers				
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-210, DEM-211			
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R			
Other	Redundant Power Supply				

Fast Ethernet Layer 2 Managed Switches

DES-3000 Series

The DES-3000 Series consists of high-performance managed Layer 2 switches. Ideal as a solution for small and medium-size business (SMB) and enterprise markets. Designed as an entry-level management solution for SMB, these switches come included with various enriched advanced features. The DES-3000 Series is a cost-effective solution suitable for business applications that require superior performance with options for expansion. The switches in addition offer fibre uplinks for long distance connections to different group users, such as classrooms, departments spread across campus, or buildings.

- D-Link Single IP Management (Virtual Stack)
- Loopback Detection (LBD)
- Internet Group Management Protocol (IGMP) Snooping
- 802.1Q Virtual LAN (VLAN)
- Quality of Service (QoS)
- Traffic Segmentation
- CPU Interface Filtering
- IP-MAC-Port Binding (IMPB)
- Broadcast/Multicast/Unicast Storm Control
- 802.1X Port-Based Access Control
- 802.1X Host-Based Access Control
- Microsoft® Network Access Protection
- Simple Network Management Protocol (SNMP)
- Cable Diagnostics

Optional Accessories

Modules (for DES-3026)

DEM-201F	1-Port 100BASE-FX Multi-Mode Fibre Module
DEM-301G	1-Port SFP Module
DEM-301T	1-Port 1000BASE-T Module

DES-3010F

- 10/100BASE-TX x 8
- 10/100/1000BASE-T x 1
- 100BASE-FX x 1 (Multi-Mode Fibre)
- Fanless
- 11-inch, 1U Desktop

DES-3010G

- 10/100BASE-TX x 8
- 10/100/1000BASE-T x 1
- SFP x 1
- Fanless
- 11-inch, 1U Desktop

DES-3026

- 10/100BASE-TX x 24
- Expansion Slots x 2
- Fanless
- 19-inch, 1U Rack-Mount

DES-3000 Series

Model		DES-3010F	DES-3010G	DES-3026
Interfaces	Fast Ethernet	8	8	24
	Gigabit Ethernet	1	1	2 (optional)
	SFP Slots		1	2 (optional)
	Combo Gigabit/SFP Slots	1		2 (optional)
	10GbE Slots			2 (optional)
General Features	Stackability	Virtual Stack (up to 32 Units)		
	Stacking Speed (per Port)			
	Switching Capacity	3.8 Gbps	5.6 Gbps	8.8 Gbps
	Forwarding Mode	Store-and-Forward		
	Packet Buffer Memory	256 K	256 K	256 K
	MAC Table	8 K		
	Flow Control			
	MDI/MDIX			
L2 Features	Loop Protection	802.1Q, 802.1w		
	803.2ad Link Aggregation	3 Groups 4 Ports per Group		
	Port Mirroring	One-to-One, Many-to-One		
	Loopback Detection	•		
	Cable Diagnostics	•		
L3 Features	IP Interfaces			
	Routing Protocols			
	Policy-Based Routing			
	Route Balancing			
	IPv6 Tunneling			
	VRRP			
Virtual LAN (VLAN)	VLANs	Static: 4 K		
	GVRP			
	Protocol VLAN (802.1v)			
	Double VLAN (Q-in-Q)			
Multicasting	Groups	256		
	Protocols	IGMP v1 / v2		
Quality of Service (QoS)	Standard	802.1p, DSCP		
	Number of Queues	4		
	Mode	Strict / WRR		
	CoS Handling	802.1p, MAC, DSCP		
	Bandwidth Control	Port-Based		
Security	STP Security	BPDU Filtering		
	Per-Port MAC Limitation	•		
	Static MAC	10		
	Storm Control	Broadcast / Multicast / Unicast		
	IP-MAC-Port Binding	500 Entries		
	DHCP Spoofing Prevention			
	ARP Spoofing Prevention			
	Traffic Segmentation	•		
	D-Link SafeGuard Engine	•		
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based, Host-Based, Dynamic VLAN Assignment		
	Web-Based Access Control (WAC)			
	MAC-Based Access Control (MAC)			
	Network Access Protection (NAP)	DHCP NAP		
	Guest VLAN	•		
	Switch Access	Internal User Database		
Access Control Lists (ACL)	Rules			
	ACL Handling			
	Time-Based ACL			
Power over Ethernet	Standard			
	PoE Ports			
	PoE Budget			
	Time-Based PoE			
Management	Switch Access	Web GUI, Telnet, Console		
	sFlow			
	SNMP	v1 / v2c / v3		
	DHCP	Client, Relay		
	RMON			
	TFTP Client	•		
	Syslog			
Physical & Environment	Power Supply	Internal		
	Max. Power Consumption	15 Watt	14.8 Watt	17 Watt
	Power Saving Technology			
	Operating Temperature	0 to 40 °C		
	Operating Humidity	5% to 95% RH		
	Dimensions (W x D x H)	280 x 180 x 44 mm	280 x 180 x 44 mm	441 x 207 x 44 mm
	Mean Time Between Failures (MTBF)	239,160 Hours	247,500 Hours	123,925 Hours
Modules/ Transceivers	10GbE Modules			
	XFP Transceivers			
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-210, DEM-211, DEM-330T, DEM-330R, DEM-331T, DEM-331R		
	WDM SFP Transceivers			
Other	Redundant Power Supply			

SmartPro Series

DGS-1500 Series

The DGS-1500 Series SmartPro switches are designed for businesses which require functions like L3 Static Routing and Single IP Management (Virtual Stacking) without upgrading to a fully managed switch. The DGS-1500 Series integrates advanced management and security functions that are similar to those of a managed switch, but less complex.

- Power Saving via LED and Port Shutoff, Port Standby, System Hibernation, Cable Length Detection, Link Status Detection
- SNMP Trap
- Trap for SmartConsole Utility
- Layer 3 Static Routing
- Auto Surveillance VLAN
- Loopback Detection
- Cable Diagnostics
- Configurable MDI/MDIX
- LLDP/LLDP-MED
- Supports IEEE 802.1p QoS, up to four 802.1p Priority Queues per Port
- Auto Voice VLAN
- Highest Priority for VoIP Services
- SmartConsole Utility or Web-Based GUI
- Single IP Management (Virtual Stacking)
- Compact CLI Through Telnet
- Access Control List Secures Network
- Port Security Supports 64 MACs per Port
- ARP Spoofing Prevention
- D-Link Safeguard Engine

Optional Accessories

Optional SFP Transceivers
DEM-310GT
DEM-311GT
DEM-312GT2
DEM-314GT
DEM-315GT
DEM-210[1]
DEM-211[1]

Optional WDM SFP Transceivers
DEM-330T/R
DEM-331T/R

[1] Supported by DGS-1500-52 only
[2] Available in late 2011

DGS-1500-20

- 10/100/1000BASE-T x 16
- SFP x 4
- Virtual Stack
- Fanless
- Power-saving Design

DGS-1500-28

- 10/100/1000BASE-T x 24
- SFP x 4
- Virtual Stack
- Fanless
- Power-Saving Design

DGS-1500-28P[2]

- 10/100/1000BASE-T x 24
- SFP x 4
- PoE and PoE+ Support
- Optional Redundant Power Supply
- Virtual Stack
- Power-Saving Design

DGS-1500-52

- 10/100/1000BASE-T x 48
- SFP x 4
- Virtual Stack
- Power-Saving Design

DGS-1500 Series

Model		DGS-1500-20	DGS-1500-28	DGS-1500-28P[1]	DGS-1500-52
Interfaces	Fast Ethernet				
	Gigabit Ethernet	16	24	24	48
	SFP Slots	4	4	4	4
	Combo Gigabit/SFP Slots				
	10GbE Slots				
General Features	Stackability	Virtual Stack (up to 32 units)			
	Stacking Speed (per Port)				
	Switching Capacity	40 Gbps	56 Gbps	56 Gbps	104 Gbps
	Forwarding Mode	Store-and-Forward			
	Packet Buffer Memory	1 MB			
	MAC Table	16 K			
	Flow Control	802.3x, HOL Blocking Prevention			
	MDI/MDIX	Configurable			
L2 Features	Loop Protection	802.1D, 802.1w			
	803.2ad Link Aggregation	10 Groups 8 Gb Ports per Group	14 Groups 8 Gb Ports per Group		26 Groups 8 Gb Ports per Group
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both			
	Loopback Detection	•			
	Cable Diagnostics	•			
L3 Features	IP Interfaces	4			
	Routing Protocols	Static			
	Policy-Based Routing				
	Route Balancing				
	IPv6 Tunneling				
	VRRP				
Virtual LAN (VLAN)	VLANs	Static: 4 K			
	GVRP	•			
	Protocol VLAN (802.1v)				
	Double VLAN (Q-in-Q)				
Multicasting	Groups	256			
	Protocols	IGMP v1/v2			
Quality of Service (QoS)	Standard	802.1p, DSCP			
	Number of Queues	4			
	Mode	Strict / WRR			
	CoS Handling	802.1p, DSCP			
	Bandwidth Control	Port-Based			
Security	STP Security				
	Per-Port MAC Limitation	•			
	Static MAC	64			
	Storm Control	Broadcast / Multicast / Unicast			
	IP-MAC-Port Binding	512 Entries			
	DHCP Spoofing Prevention	•			
	ARP Spoofing Prevention	•			
	Traffic Segmentation	•			
	D-Link SafeGuard Engine	•			
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based			
	Web-Based Access Control (WAC)				
	MAC-Based Access Control (MAC)				
	Network Access Protection (NAP)				
	Guest VLAN				
	Switch Access	User Account			
Access Control Lists (ACL)	Rules	200	200	200	450
	ACL Handling	MAC, IP, 802.1p, DSCP			
	Time-Based ACL				
Power over Ethernet	Standard			802.3af 802.3at	802.3af
	PoE Ports			1-24	1-44
	PoE Budget		185 Watt	370 W (740 W with RPS-700)	370 Watt
	Time-Based PoE			•	
Management	Switch Access	Web GUI, Telnet			
	sFlow				
	SNMP	v1 / v2c / v3			
	DHCP				
	RMON	•			
	TFTP Client	•			
	Syslog				
Physical & Environment	Power Supply	Internal			
	Max. Power Consumption	14.06 Watt	16.81 Watt		43.5 Watt
	Power Saving Technology	IEEE 802.3az EEE, Green Ethernet			
	Operating Temperature	-5 to 50°C			
	Operating Humidity	0% to 95% Non-Condensing			
	Dimensions (W x D x H)	440 x 140 x 44 mm	440 x 210 x 44 mm	440 x 310 x 44 mm	440 x 250 x 44 mm
	Mean Time Between Failures (MTBF)	253,460 hours	236,739 hours		201,517 hours
Modules/ Transceivers	10GbE Modules				
	XFP Transceivers				
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT			DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-210, DEM-211
	WDM SFP Transceivers	DEM-330T/R, DEM-331T/R			
Other	Redundant Power Supply			DPS-700	

[1] Available in late 2011

Gigabit Smart Switches

DGS-1210 Series

The DGS-1210 Series is the latest generation of Smart Switches that feature D-Link Green technology. This series integrates advanced management and security functions that provide performance and scalability. DGS-1210 Series is designed for SMBs/enterprises seeking to upgrade from Unmanaged Switches to Smart Switches, which gives customers easy access and simplifies operation at an affordable price.

- Internet Group Management Protocol (IGMP) Snooping
- Loopback Detection (LBD)
- Cable Diagnostics
- 802.1Q Virtual LAN (VLAN)
- Management VLAN
- Asymmetric VLAN
- Auto Voice VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- 802.1X Access Control
- Port Security
- Broadcast/Multicast/Unicast Storm Control
- D-Link Safeguard Engine™
- DHCP Server Screening
- ARP Spoofing Prevention
- Web-Based GUI
- Simple Network Management Protocol (SNMP)

DGS-1210-10P

- 10/100/1000BASE-T x 8 (PoE)
- Combo 1000BASE-T/SFP x 2
- Fanless
- Reset Button
- 13-inch, 1U Desktop
- Power Savings

DGS-1210-16

- 10/100/1000BASE-T x 12
- Combo 1000BASE-T/SFP x 4
- Fanless
- Reset Button
- 19-inch, 1U Rack-Mount
- Power Savings

DGS-1210-24

- 10/100/1000BASE-T x 20
- Combo 1000BASE-T/SFP x 4
- Fanless
- Reset Button
- 19-inch, 1U Rack-Mount
- Power Savings

DGS-1210-48

- 10/100/1000BASE-T x 44
- Combo 1000BASE-T/SFP x 4
- DC Fan x 2
- Reset Button
- 19-inch, 1U Rack-Mount
- Power Savings

DGS-1210 Series

Model		DGS-1210-10P	DGS-1210-16	DGS-1210-24	DGS-1210-48
Interfaces	Fast Ethernet				
	Gigabit Ethernet	8	12	20	44
	Combo Gigabit/SFP Slots	2	4	4	4
General Features	Stackability				
	Stacking speed (per Port)				
	Switching Capacity	20 Gbps	32 Gbps	48 Gbps	96 Gbps
	Forwarding Mode	Store-and-Forward			
	Packet Buffer Memory	512 K	512 K	512 K	1 M
	MAC Table	8 K			
	Flow Control	802.3x, HOL Blocking Prevention			
	MDI/MDIX	Configurable			
L2 Features	Loop Protection	802.1Q, 802.1w			
	803.2ad Link Aggregation	5 Groups 8 Ports per Group	8 Groups 8 Ports per Group		
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both			
	Loopback Detection	•			
	Cable Diagnostics	•			
L3 Features	IP Interfaces				
	Routing Protocols				
	Policy-Based Routing				
	Route Balancing				
	IPv6 Tunneling				
	VRRP				
Virtual LAN (VLAN)	VLANs	Static 256			
	GVRP				
	Protocol VLAN (802.1v)				
	Double VLAN (Q-in-Q)				
	Auto Voice VLAN	•			
	Auto Surveillance VLAN	•			
Multicasting	Groups	256			
	Protocols	IGMP v1, v2			
Quality of Service (QoS)	Standard	802.1p, DSCP			
	Number of Queues	4			
	Mode	Strict / WRR			
	CoS Handling	802.1p, DSCP			
	Bandwidth Control	•			
Security	STP Security				
	Per-Port MAC Limitation	•			
	Static MAC	64			
	Storm Control	Broadcast / Multicast / Unicast			
	IP-MAC-Port Binding				
	DHCP Server Screening	•			
	ARP Spoofing Prevention	•			
	Traffic Segmentation	•			
	D-Link SafeGuard Engine	•			
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based			
	Web-Based Access Contol (WAC)				
	MAC-Based Access Contol (MAC)				
	Network Access Protection (NAP)				
	Guest VLAN				
	Switch Access				
Access Control Lists (ACL)	Rules	240			
	Mac-Based ACL	VLAN ID, 802.1p, MAC, IP, DSCP, Port			
	Time-Based ACL				
Power over Ethernet	Standard	802.3af, 802.3at			
	PoE Ports	1-8			
	PoE Budget	78 Watt			
	Time-Based PoE	•			
Management	Switch Access	Web GUI, Telnet			
	sFlow				
	SNMP	v1 / v2c / v3			
	DHCP	Client			
	RMON				
	TFTP Client	•			
	Syslog	•			
Physical & Environment	Power Supply	Internal			
	Max. Power Consumption	109.6 Watt (PoE on) 14.45 Watt (PoE off)	17.4 Watt	24.1 Watt	59.1 Watt
	Power Saving Technology	Green Ethernet			
	Number of Fans	0	0	0	2
	Operating Temperature	0 to 40 °C			
	Operating Humidity	10% to 95% Non-Condensing			
	Dimensions (W x D x H)	330 x 180 x 44 mm	440 x 210 x 44 mm	440 x 210 x 44 mm	440 x 250 x 44 mm
	Mean Time Between Failures (MTBF)	205,249 Hours	799,491 Hours	410,948 Hours	322,402 Hours
Modules/ Transceivers	10GbE Modules				
	XFP Transceivers				
	SFP Transceivers	DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-210, DEM-211			
	WDM SFP Transceivers	DEM-330T, DEM-330R, DEM-331T, DEM-331R			
Other	Redundant Power Supply				

Fast Ethernet Smart Switches

DES-1210 Series

The DES-1210 Series is the latest generation of Smart Switches, which integrates advanced management and security functions that provide performance and scalability. While easy to use, the DES-1210 Series provides a complete and affordable solution for small and medium-sized businesses.

- Internet Group Management Protocol (IGMP) Snooping
- Multicast Filtering
- 802.1Q Tagged Virtual LAN (VLAN)
- Management VLAN
- Asymmetric VLAN
- Auto Voice VLAN
- Quality of Service (QoS)
- Access Control List (ACL)
- 802.1X Access Control
- Broadcast/Multicast/Unicast Storm Control
- D-Link Safeguard Engine™
- DHCP Server Screening
- ARP Spoofing Prevention
- Web-Based GUI
- Simple Network Management Protocol (SNMP)

DES-1210-08P

- 10/100Base-TX x 8
- 802.3af PoE
- Fanless
- Reset Button
- Desktop Size

DES-1210-28

- 10/100BASE-TX x 24
- 10/100/1000BASE-T x 2
- Combo 1000BASE-T/SFP x 2
- Fanless
- Reset Button
- 19-inch, 1U Rack-Mount

DES-1210-28P

- 10/100BASE-TX x 24
- 10/100/1000BASE-T x 2
- Combo 1000BASE-T/SFP x 2
- 802.3af PoE
- 802.3at PoE+
- 3 Smart Fans
- Reset Button
- 19-inch, 1U Rack-Mount

DES-1210-52

- 10/100BASE-TX x 48
- 10/100/1000BASE-T x 2
- Combo 1000BASE-T/SFP x 2
- Fanless
- Reset Button
- 19-inch, 1U Rack-Mount

DES-1210 Series

Model		DES-1210-08P	DES-1210-28	DES-1210-28P	DES-1210-52
Interfaces	Fast Ethernet	8	24	24	48
	Gigabit Ethernet		2	2	2
	Combo Gigabit/SFP Slots		2	2	2
General Features	Stackability				
	Stacking Speed (per Port)				
	Switching Capacity	1.6 Gbps	12.8 Gbps	12.8 Gbps	17.6 Gbps
	Forwarding Mode	Store-and-Forward			
	Packet Buffer Memory	384 K	512 K	512 K	1 M
	MAC Table	8 K			
	Flow Control	802.3x, HOL Blocking Prevention			
	MDI/MDIX	Configurable			
L2 Features	Loop Protection	802.1Q, 802.1w			
	803.2ad Link Aggregation	8 Groups, 8 Ports per Group			
	Port Mirroring	One-to-One, Many-to-One, RX/TX/Both			
	Loopback Detection	•			
	Cable Diagnostics	•			
L3 Features	IP Interfaces				
	Routing Protocols				
	Policy-Based Routing				
	Route Balancing				
	IPv6 Tunneling				
	VRRP				
Virtual LAN (VLAN)	VLANs	Static: 256			
	GVRP				
	Protocol VLAN (802.1v)				
	Double VLAN (Q-in-Q)				
	Auto Voice VLAN	•			
	Auto Surveillance VLAN	•			
Multicasting	Groups	256			
	Protocols	IGMP v1, v2			
Quality of Service (QoS)	Standard	802.1p, DSCP			
	Number of Queues	4			
	Mode	Strict / WRR			
	CoS Handling	802.1p, DSCP			
	Bandwidth Control	•			
Security	STP Security				
	Per-Port MAC Limitation	•			
	Static MAC	64			
	Storm Control	Broadcast / Multicast / Unicast			
	IP-MAC-Port Binding				
	DHCP Server Prevention	•			
	ARP Spoofing Prevention	•			
	Traffic Segmentation	•			
	D-Link SafeGuard Engine	•			
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication	Port-Based			
	Web-based Access Contol (WAC)				
	MAC-based Access Contol (MAC)				
	Network Access Protection (NAP)				
	Guest VLAN				
	Switch Access				
Access Control Lists (ACL)	Rules	240			
	Mac-Based ACL	VLAN ID, 802.1p, MAC, IP, DSCP, Port			
	Time-Based ACL				
Power over Ethernet	Standard	802.3af		802.3af, 802.3at	
	PoE Ports	1-8		802.3af: Ports 1-24 802.3at: Ports 1-4	
	PoE Budget	72 Watt		193 Watt	
	Time-Based PoE	•		•	
Management	Switch Access	Web GUI, Telnet			
	sFlow				
	SNMP	v1 / v2c / v3			
	DHCP	Client			
	RMON				
	TFTP Client	•			
	Syslog	•			
Physical & Environment	Power Supply	External	Internal	Internal	Internal
	Max. Power Consumption	89.4 Watt (PoE on) 9.7 Watt (PoE off)	17.6 Watt	245 Watt (PoE on) 26.4 Watt (PoE off)	28.9 Watt
	Power Saving Technology			Smart Fans	
	Number of Fans	0	0	3	0
	Operating Temperature	0 to 40 °C			
	Operating Humidity	5% to 95% Non-Condensing			
	Dimensions (W x D x H)	190 x 120 x 38 mm	440 x 210 x 44 mm	440 x 250 x 44 mm	440 x 250 x 44 mm
	Mean Time Between Failures (MTBF)	350,704 Hours	419,467 Hours	197,343 Hours	289,012 Hours
Modules/ Transceivers	10GbE Modules				
	XFP Transceivers				
	SFP Transceivers		DEM-310GT, DEM-311GT, DEM-312GT2, DEM-314GT, DEM-315GT, DEM-210, DEM-211		
	WDM SFP Transceivers		DEM-330T, DEM-330R, DEM-331T, DEM-331R		
Other	Redundant Power Supply				

Gigabit EasySmart Switches

DGS-1100 Series

The DGS-1100 Series provides businesses with the benefits of a managed device but without the associated complexity and cost. Equipped with 16 or 24 Gigabit ports, the series integrates basic configurable functions that provide performance and scalability. With an easy-to-use web interface, the EasySmart Series helps users to quickly and easily deploy their network.

- Basic configurable options
- 11-inch metal case. Comes with adapters to install in 19-inch racks
- Fanless, silent operation
- Improved resiliency, longer MTBF (Mean Time Between Failures)
- VLAN support for traffic segmentation
- AutoSurveillance VLAN for easy integration with IP-based surveillance systems
- Loopback detection and broadcast storm control to avoid network downtime
- QoS (Quality of Service) and bandwidth control to ensure smooth operation
- Cable diagnostics function to help to troubleshoot wiring problems
- Configurable through a web interface or SmartConsole utility
- 802.3az Energy Efficient Ethernet (EEE) compliant

DGS-1100-16

- 10/100/1000BASE-T x 16
- 802.3ad Link Aggregation
- Static VLAN
- 802.1p QoS
- Fanless

DGS-1100-24

- 10/100/1000BASE-T x 24
- 802.3ad Link Aggregation
- Static VLAN
- 802.1p QoS
- Fanless

DGS-1100 Series

Model		DGS-1100-16	DGS-1100-24
Interfaces	Fast Ethernet		
	Gigabit Ethernet	16	24
	Combo Gigabit/SFP Slots		
General Features	Stackability		
	Stacking Speed (per Port)		
	Switching Capacity	32 Gbps	32 Gbps
	Forwarding Mode	Store-and-Forward	
	Packet Buffer Memory	3.5 Mb	3.5 Mb
	MAC Table	8 K	8 K
	Flow Control	802.3x, HOL Blocking Prevention	
	MDI/MDIX	Auto	
L2 Features	Loop Protection		
	803.2ad Link Aggregation	8 Groups, 4 Ports per Group	
	Port Mirroring	One-to-One, Many-to-One	
	Loopback Detection	•	
	Cable Diagnostics	•	
L3 Features	IP Interfaces		
	Routing Protocols		
	Policy-Based Routing		
	Route Balancing		
	IPv6 Tunneling		
	VRRP		
Virtual LAN (VLAN)	VLANs ID	32	
	GVRP		
	Protocol VLAN (802.1v)		
	Double VLAN (Q-in-Q)		
	Auto Voice VLAN		
	Auto Surveillance VLAN	•	
Multicasting	Groups	32	
	Protocols	IGMP v1/v2	
Quality of Service (QoS)	Standard	802.1p	
	Number of Queues	4	
	Mode	Strict / WRR	
	CoS Handling		
	Bandwidth Control	•	
Security	STP Security		
	Per-Port MAC Limitation	•	
	Static MAC	128	
	Storm Control	Broadcast / Multicast / Unicast	
	IP-MAC-Port Binding		
	DHCP Server Prevention		
	ARP Spoofing Prevention		
	Traffic Segmentation		
	D-Link SafeGuard Engine		
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication		
	Web-Based Access Control (WAC)		
	MAC-Based Access Control (MAC)		
	Network Access Protection (NAP)		
	Guest VLAN		
	Switch Access		
Access Control Lists (ACL)	Rules		
	Mac-Based ACL		
	IPv4-Based ACL		
Power over Ethernet	Standard		
	PoE Ports		
	PoE Budget		
	Time-Based PoE		
Management	Switch Access	Web GUI	
	sFlow		
	SNMP		
	DHCP		
	RMON		
	TFTP Client		
	Syslog		
Physical & Environment	Power Supply	Internal	
	Max. Power Consumption	5.96 Watt	7.68 Watt
	Power Saving Technology	IEEE 802.3az Energy Efficient Ethernet	
	Number of Fans	0	
	Operating Temperature	0 to 40 °C	
	Operating Humidity	10% to 95% RH Non-Condensing	
	Dimensions (W x D x H)	280 x 180 x 44 mm	
	Mean Time Between Failures (MTBF)	988,205 Hours	774,990 Hours
Modules/ Transceivers	10GbE Modules		
	XFP Transceivers		
	SFP Transceivers		
	WDM SFP Transceivers		
Other	Redundant Power Supply		

Fast Ethernet EasySmart Switches

DES-1100 Series

The DES-1100 Series provides businesses with the benefits of a managed device but without the associated complexity and cost. Equipped with 16 or 24 Fast Ethernet ports, the series integrates basic configurable functions that provide performance and scalability. With an easy to use web interface, the EasySmart Series helps users to quickly and easily deploy their network.

- Basic configurable options
- 11-inch metal case. Comes with adapters to install in 19-inch racks
- Fanless, silent operation
- Improved resiliency, longer MTBF (Mean Time Between Failures)
- VLAN support for traffic segmentation
- AutoSurveillance VLAN for easy integration with IP-based surveillance systems
- Loopback detection and broadcast storm control to avoid network downtime
- QoS (Quality of Service) and bandwidth control to ensure smooth operation
- Cable diagnostics function to help to troubleshoot wiring problems
- Configurable through a web interface or SmartConsole utility

DES-1100-16

- 10/100BASE-TX x 16
- 802.3ad Link Aggregation
- Static VLAN
- 802.1p QoS
- Fanless

DES-1100-24

- 10/100BASE-TX x 24
- 802.3ad Link Aggregation
- Static VLAN
- 802.1p QoS
- Fanless

DES-1100 Series

Model		DES-1100-16	DES-1100-24
Interfaces	Fast Ethernet	16	24
	Gigabit Ethernet		
	Combo Gigabit/SFP Slots		
General Features	Stackability		
	Stacking Speed (per Port)		
	Switching Capacity	3.2 Gbps	4.8 Gbps
	Forwarding Mode	Store-and-Forward	
	Packet Buffer Memory	1.75 Mb	
	MAC Table	8 K	
	Flow Control	802.3x	
	MDI/MDIX	Auto	
L2 Features	Loop Protection		
	803.2ad Link Aggregation	2 Groups, 4 Ports per Group	
	Port Mirroring	One-to-One, Many-to-One	
	Loopback Detection	•	
	Cable Diagnostics		
L3 Features	IP Interfaces		
	Routing Protocols		
	Policy-Based Routing		
	Route Balancing		
	IPv6 Tunneling		
	VRRP		
Virtual LAN (VLAN)	VLANs ID	32	
	GVRP		
	Protocol VLAN (802.1v)		
	Double VLAN (Q-in-Q)		
	Auto Voice VLAN		
	Auto Surveillance VLAN		
Multicasting	Groups	32	
	Protocols	IGMP v1/v2	
Quality of Service (QoS)	Standard	802.1p	
	Number of Queues	2	
	Mode	Strict / WRR	
	CoS Handling		
	Bandwidth Control	•	
Security	STP Security		
	Per-Port MAC Limitation		
	Static MAC	128	
	Storm Control	Broadcast / Multicast / Unicast	
	IP-MAC-Port Binding		
	DHCP Server Prevention		
	ARP Spoofing Prevention		
	D-Link SafeGuard Engine		
Authentication, Authorisation & Accounting (AAA)	802.1x Authentication		
	Web-Based Access Control (WAC)		
	MAC-Based Access Control (MAC)		
	Network Access Protection (NAP)		
	Guest VLAN		
	Switch Access		
Access Control Lists (ACL)	Rules		
	Mac-Based ACL		
	iPv4-Based ACL		
Power over Ethernet	Standard		
	PoE Ports		
	PoE Budget		
	Time-Based PoE		
Management	Switch Access	Web GUI	
	sFlow		
	SNMP		
	DHCP		
	RMON		
	TFTP Client		
	Syslog		
Physical & Environment	Power Supply	Internal	
	Max. Power Consumption	5.96 Watt	7.68 Watt
	Power Saving Technology		
	Number of Fans	0	
	Operating Temperature	0 to 40 °C	
	Operating Humidity	10% to 90% RH Non-Condensing	
	Dimensions (W x D x H)	280 x 125 x 44 mm	
	Mean Time Between Failures (MTBF)	597,779 Hours	562,066 Hours
Modules/ Transceivers	10GbE Modules		
	XFP Transceivers		
	SFP Transceivers		
	WDM SFP Transceivers		
Other	Redundant Power Supply		

Gigabit Unmanaged Switches

DGS-1000 Series

The DGS-1000 Series consists of Unmanaged Gigabit Switches designed for cost-effective Small Office Home Office (SOHO) and workgroup connection. They support full duplex operation, provide IEEE 802.3x flow control for reliable data transfer, and auto MDI/MDIX to eliminate the need for cross-over cables to simplify installation. They make use of D-Link Green technology to reduce power consumption and provide a longer product life without sacrificing operational performance or functionality. Recyclable packaging and minimised use of harmful substances (RoHS compliant) make this switch series truly environmentally friendly.

- Power Savings by Link Status
- Power Savings by Cable Length Detection
- Jumbo Frame
- IEEE 802.3x Flow Control
- Auto MDI/MDIX
- Quality of Service (QoS)
- Cable Diagnostics

DGS-1008P

- 10/100/1000BASE-T x 8
- 802.3af PoE Ports x 4
- External Power Supply
- Desktop Size
- Fanless

DGS-1016D

- 10/100/1000BASE-T x 16
- Internal Power Supply
- 11-inch, 1U Desktop & Rack-Mount
- Fanless
- Power Savings

DGS-1024D

- 10/100/1000BASE-T x 24
- Internal Power Supply
- 11-inch, 1U Desktop & Rack-Mount
- Fanless
- Power Savings

DGS-1000 Series

Model		DGS-1008P	DGS-1016D	DGS-1024D
Interfaces	100BASE-TX			
	1000BASE-T	8	16	24
	100BASE-FX			
General Features	Switching Capacity	1.6 Gbps	32 Gbps	48 Gbps
	Forwarding Mode		Store-and-Forward	
	Packet Buffer Memory	192 KB	512 KB	512 KB
	MAC Table	4K	8K	8K
	Flow Control		802.3x	
	MDI/MDIX		Auto	
Quality of Service (QoS)	Standard	802.1p, DSCP	802.1p	802.1p
	Number of Queues		4	
	Mode		Strict	
Power over Ethernet	Standard	802.3af		
	PoE Ports	1-4		
	PoE Budget	52 Watt		
Physical & Environment	Power Supply	External	Internal	Internal
	Power Saving Technology		Green Ethernet	
	Number of Fans	0	0	0
	Operating Temperature		0 to 40 °C	
	Operating Humidity		10% to 90% RH Non-Condensing	
	Dimensions (W x D x H)	190 x 120 x 38 mm	280 x 180 x 44 mm	280 x 180 x 44 mm

Fast Ethernet Unmanaged Switches

DES-1000 Series

The DES-1000 Series consists of Unmanaged Ethernet Switches designed for cost effective Small Office Home Office (SOHO) and workgroup connection. They use the copper twisted-pair wires as the network cable, and support full/half duplex operation for 10/100 Mbps speeds. These switches provide IEEE 802.3x flow control for reliable data transfer, and auto MDI/MDI-X to eliminate the need for cross over cables to simplify installation.

- Fanless
- IEEE 802.3x Flow Control
- Auto MDI/MDIX
- Plug-and-Play Installation Filtering
- Quality of Service (QoS) (DES-1016D & DES-1024D)

DES-1008F

- 10/100Base-TX x 7
- 100Base-FX x 1
- External Power Supply
- Desktop Size
- Fanless

DES-1008P

- 10/100Base-TX x 8
- 802.3af PoE Ports x 4
- External Power Supply
- Desktop Size
- Fanless

DES-1016D

- 10/100BASE-TX x 16
- Internal Power Supply
- 11-inch, 1U Desktop & Rack-Mount
- Fanless

DES-1016R+

- 10/100BASE-TX x 16
- Expansion Slot x 1
- Internal Power Supply
- 19-inch, 1U Rack-Mount
- Fanless

Optional Module

DES-102F 2-Port 100BASE-FX, MMF, SC, 2km

DES-1024D

- 10/100BASE-TX x 24
- Internal Power Supply
- 11-inch, 1U Desktop & Rack-Mount
- Fanless

DES-1024R+

- 10/100BASE-TX x 24
- Expansion Slot x 1
- Internal Power Supply
- 19-inch, 1U Rack-Mount
- Fanless

Optional Module

DES-102F 2-Port 100BASE-FX, MMF, SC, 2km

DES-1026G

- 10/100BASE-TX x 24
- 10/100/1000BASE-T x 2
- Internal Power Supply
- 19-inch, 1U Rack-Mount
- Fanless

DES-1000 Series

Model		DES-1008F	DES-1008P	DES-1016D	DES-1016R+
Interfaces	100BASE-TX	7	8	16	24
	1000BASE-T				
	100BASE-FX	1			2 (optional)
General Features	Switching Capacity	1.6 Gbps	1.6 Gbps	3.2 Gbps	3.2 Gbps
	Forwarding Mode	Store-and-Forward			
	Packet Buffer Memory	96 KB		160 KB	256 KB
	MAC Table	1 K		8K	4K
	Flow Control	802.3x			
	MDI/MDIX	Auto			
Quality of Service (QoS)	Standard			802.1p	
	Number of Queues			2	
	Mode			Strict	
Power over Ethernet	Standard		802.3af		
	PoE Ports		1-4		
	PoE Budget		56 Watt		
Physical & Environment	Power Supply	External		Internal	
	Power Saving Technology				
	Number of Fans	0			
	Operating Temperature	0˚ to 40˚C			
	Operating Humidity	10% to 90% RH Non-Condensing			
	Dimensions (W x D x H)	192 x 117 x 32 mm	171 x 98 x 29 mm	280 x 180 x 44 mm	441 x 207 x 44 mm
Modules					DES-102F

Model		DES-1024D	DES-1024R+	DES-1026G
Interfaces	100BASE-TX	24	24	24
	1000BASE-T			2
	100BASE-FX		2 (optional)	
General Features	Switching Capacity	4.8 Gbps	4.8 Gbps	8.8 Gbps
	Forwarding Mode	Store-and-Forward		
	Packet Buffer Memory	160 KB	256 KB	320 KB
	MAC Table	8 K	4 K	8 K
	Flow Control	802.3x		
	MDI/MDIX	Auto		
Quality of Service (QoS)	Standard	802.1p		
	Number of Queues	2		
	Mode	Strict		
Power over Ethernet	Standard			
	PoE Ports			
	PoE Budget			
Physical & Environment	Power Supply	Internal		
	Power Saving Technology			
	Number of Fans	0		
	Operating Temperature	'0˚ to 40˚C		
	Operating Humidity	10% to 90% RH Non-Condensing		
	Dimensions (W x D x H)	280 x 180 x 44 mm	441 x 207 x 44 mm	441 x 140 x 44 mm
Modules			DES-102F	

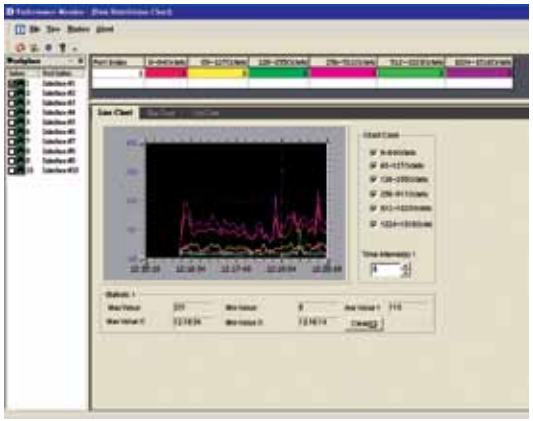
Network Management D-View 6.0

DV-600S and DV-600P

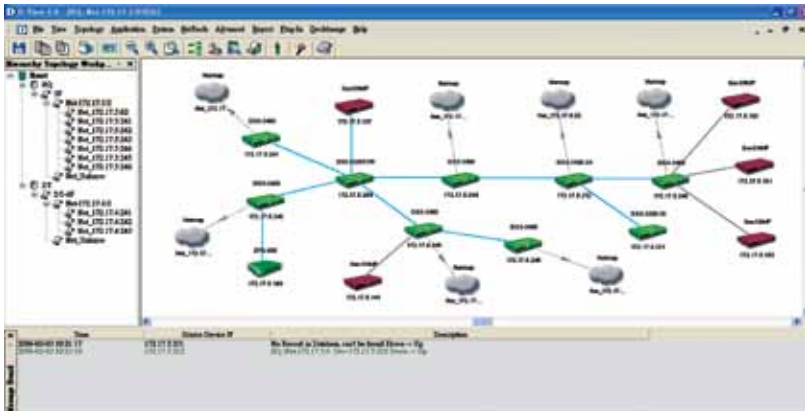
D-View 6.0 provides user-friendly interface with easy access to all the features and tools from a single location. D-View is easy to learn and can help ease the administrator's task of manually creating network topology because it provides robust features for quick generation of such topology within the software. The administrator can also import or export the topology as and when required.

Model	D-View 6.0 Standard (DV-600S)	D-View 6.0 Professional (DV-600P)
Hardware Requirement	CPU: 1.4GHz & above; DRAM: 1G & above; Hard Disk: 200MB; Ethernet Interface: 10/100/1000Mbps	
Software Requirement	Internet Explorer 6 SP1 & above; Microsoft® XML Parser; SDK	
Operating System Requirement	Microsoft® Windows 2000 Server SP4 Microsoft® Windows 2000 Advanced Server SP4 Microsoft® Windows 2003 SP2 Microsoft® XP Home / Professional SP2	Microsoft® Windows 2000 Server SP4 Microsoft® Windows 2000 Advanced Server SP4 Microsoft® Windows 2003 SP2
Database Management System Requirement	-	Microsoft® SQL Server 2000 SP3 Microsoft® SQL Server 2005
Architecture	Standalone Architecture	Client-Server Architecture
Login	Single User Login	Multiple User Login
No. of Supported Nodes	<=1,000	>=1,000

Features	
Network Management	• Automatically discover new devices in the network • Periodically poll network devices to monitor their status • Provide an intuitive view of managed devices in a topology • Support multiple, concurrent administrators • Integrate with all SNMP-enabled devices • Manage wireless switches, access points and NetDefend products such as IPS and UTM firewalls
Fault / Event Management	• Notify administrator when new trap events occur through email, audio or visual alerts • Support customised notifications - based on severity of event
Device Management	• Central management centre for D-Link's end-to-end security solutions • Provide backup and restoration of configuration files • Manage third-party devices using the MIB compiler and MIB browser
Performance Management	• Retrieve and monitor packet information for specific Ports such as error rate, packet size and Port flow statistics - based on RMON protocol or RFC 1213 standard
MIB Utilities	• Powerful, easy-to-use MIB complier and browser • Support free and lost views for viewing devices in a domain
D-View Plug-ins	• E2ES Console Plug-in • Wireless Plug-in



Performance



Topology Map

D-View Plug-ins

Model	Description	Products	Configuration & Management	Monitoring	RePorting
E2ES Plug-in	D-Link's D-View E2ES (End-to-End Security) console plug-in facilitates the configuration and management of all of D-Link's managed switches, enabling users to centrally configure, monitor and react to network threats. The integration of the E2ES (End-to-End Security) plug-in into D-Link's D-View management software provides a simple end-to-end containment and protection solution to ensure Gateway, End-Point and Joint switch and Firewall Security, resulting in reduced management and monitoring costs.	xStack Switches DGS-3600, DGS-3400, DGS-3200, DES-3800, DES-3528/52 Series Managed Switches DGS-3100, DES-3028/52 Series	Integrated Console for switches including • IP-MAC-Port Binding (IMPB) • Access Control List (ACL) • 802.1X Authentication • MAC-Based Access Control (MAC) • Web-Based Acccess Control (WAC) • Loopback Detection (LBD) • ZoneDefense • Port Security • Microsoft® Network Access Protection (NAP)	• Built-in RADIUS Service • Microsoft® Network Access Protection (NAP)	• System resource statistics • RePorting for passed authentication • RePorting for failed authentication • RePorting for logged-in Users • RePorting for database backup and restore
Wireless Plug-in	D-Link's D-View Wireless Plug-in is a platform for managing enterprise wireless and wired LAN network. In addition to D-View's LAN management functionality, Wireless Plug-in provides a unified console for managing the broad portfolio of D-Link's enterprise wireless LAN products, including Unified Switches, Unified Access Points and Standalone Access Points. With D-View Wireless Plug-in, IT managers can control, configure and monitor all D-Link Switches and Wireless Access Points from a single location, significantly reducing operation overhead and total cost of ownership (TCO).	Unified Switches DWS-3000, DWS-4000 Series Unified Access Points DWL-3500AP, DWL-8500AP, DWL-8600AP Stand-alone Access Points DAP-2590, DWL-3200AP, DWL-8200AP	• Multiple Unified Switch Management • Unified Access Point Management • Batch configuration for Access points of same Model • Different wireless profiles are available to set AP configuration	• Rogue AP Detection • Client Statistics • AP Statistics • Global Statistics	Display a variety of AP rePorts for easier management and troubleshooting including • Client Association • Security • AP Utilisation • AP Channel Usage

SFP/XFP Transceivers

D-Link's Small Form-Factor Pluggable (SFP) and 10-Gigabit Small Form-Factor Pluggable (XFP) Transceivers can achieve long distance data transmission and high speed communication with single-mode fibre, multi-mode fibre and copper cables. These modules can be installed into switches and media converters.

Fast Ethernet SFP Transceivers

Model		DEM-210	DEM-211
Standard		IEEE 802.3u 100Base-FX	IEEE 802.3u 100Base-FX
Connector		Duplex LC	Duplex LC
Fibre Type	Single-Mode	9/125 µm	
	Multi-Mode		62.5/125 µm
Wavelength		1310 nm	1310 nm
Max. Distance		15 Km	2 Km
Power		3.3 V	3.3 V
Hot-Pluggable		•	•

Gigabit Ethernet SFP Transceivers

Model		DEM-310GT	DEM-311GT	DEM-314GT	DEM-315GT
Standard		IEEE 802.3z 1000Base-LX	IEEE 802.3z 1000Base-SX	IEEE 802.3z 1000Base-LX	IEEE 802.3z 1000Base-LX
Connector		Duplex LC	Duplex LC	Duplex LC	Duplex LC
Fibre Type	Single-Mode	9/125 µm		9/125 µm	9/125 µm
	Multi-Mode	50/125 µm 62.5/125 µm	50/125 µm 62.5/125 µm		
Wavelength		1310 nm	850 nm	1310 nm	1550 nm
Max. Distance		10 Km	550 m	50 Km	80 Km
Power		3.3 V	3.3 V	3.3 V	3.3 V
Hot-Pluggable		•	•	•	•

Gigabit Ethernet WDM Bi-Directional SFP Transceivers

Model		DEM-330R[1]	DEM-330T[1]	DEM-331R[2]	DEM-331T[2]
Standard		IEEE 802.3z 1000Base-BX	IEEE 802.3z 1000Base-BX	IEEE 802.3z 1000Base-BX	IEEE 802.3z 1000Base-BX
Connector		Simplex LC	Simplex LC	Simplex LC	Simplex LC
Fibre Type	Single-Mode	9/125 µm	9/125 µm	9/125 µm	9/125 µm
	Multi-Mode				
Wavelength		TX: 1310 nm RX: 1550 nm	TX: 1550 nm RX: 1310 nm	TX: 1310 nm RX: 1550 nm	TX: 1550 nm RX: 1310 nm
Max. Distance		10 Km	10 Km	40 Km	40 Km
Power		3.3 V	3.3 V	3.3 V	3.3 V
Hot-Pluggable		•	•	•	•

[1] DEM-330R and DEM-330T used as a pair
[2] DEM-331R and DEM-331T used as a pair

10 Gigabit Ethernet SFP+/XFP Transceivers

Model		DEM-431XT	DEM-432XT	DEM-421XT	DEM-422XT	DEM-423XT
Standard		IEEE 802.3ae 10GBase-SR	IEEE 802.3ae 10GBase-LR	IEEE 802.3ae 10GBase-SR	IEEE 802.3ae 10GBase-LR	IEEE 802.3ae 10GBase-ER
Form Factor		SFP+	SFP+	XFP	XFP	XFP
Connector		Duplex LC	Duplex LC	Duplex LC	Duplex LC	Duplex LC
Fibre Type	Single-Mode		9/125 µm		9/125 µm	9/125 µm
	Multi-Mode	50/125 µm 62.5/125 µm		50/125 µm 62.5/125 µm		
Wavelength		850 nm	1310 nm	850 nm	1310 nm	1550 nm
Max. Distance		300 m	10 Km	300 m	10 Km	40 Km
Power		3.3 V	3.3 V	3.3/5 V	3.3/5 V	3.3/5 V
Hot-Pluggable		•	•			

Redundant Power Supplies

DPS Series

Model	DPS-200	DPS-500	DPS-500DC	DPS-600	DPS-700
Output Power	60 Watt	140 Watt	140 Watt	500 Watt	589 Watt
Input Power	90 to 264 VAC	90 to 264 VAC	-36 to -72 VDC	90 to 264 VAC	90 to 264 VAC
Dimensions (mm)	196 x 195 x 50	196 x 195 x 50	196 x 195 x 50	441 x 139 x 44.5	441 x 139 x 44
Mounting Options (see table below)	DPS-800 DPS-900	DPS-800 DPS-900	DPS-800	19" rack, 1U	19" rack, 1U

Compatible Switches	DPS-200	DPS-500	DPS-500DC	DPS-600	DPS-700
DES-3528	•				
DES-3528P				•	
DES-3552	•				
DGS-3100-24	•				
DGS-3100-24TG	•				
DGS-3100-48		•	•		
DGS-3120-24TC	•				
DGS-3120-24PC					•
DGS-3120-24SC	•				
DGS-3120-48TC		•			
DGS-3120-48PC					•
DGS-3200-10	•				
DGS-3200-24	•				
DGS-3427		•	•		
DGS-3426P		•	•		
DGS-3450		•	•		
DGS-3612G		•	•		
DGS-3627		•	•		
DGS-3627G		•	•		
DGS-3650		•	•		
DWS-3024L				•	
DWS-3024				•	
DWS-4026				•	

Mounting Options	DPS-800	DPS-900
No. of RPS Slots	2	8
Form Factor	19" rack, 1U	19" rack, 5U

Modules and Media Converters

DES, DEM and DMC Series

Modules	DES-102F	DEM-201F	DEM-301G	DEM-301T	DEM-410CX	DEM-410X
Standard	IEEE 802.3u 100Base-FX	IEEE 802.3u 100Base-FX	IEEE 802.3z	802.3ab 1000Base-T	IEEE 802.3ak 10-Gigabit Ethernet	IEEE 802.3ae 10-Gigabit Ethernet
No. of Ports	2	1	1	1	1	1
Connector	SC (Fibre)	SC (Fibre)	SFP slot (Fibre)	RJ-45 (Copper)	CX4 (Copper)	XFP (Fibre)
Accessories			SFP Transceivers WDM SFP Transceivers		DEM-CB100	DEM-421XT DEM-422XT
Compatibility	DES-1016R+ DES-1024R+	DES-3026	DES-3026	DES-3026	DGS-3426P DGS-3427 DGS-3450 DGS-3627 DGS-3627G DGS-3650 DWS-4026	DGS-3426P DGS-3427 DGS-3450 DGS-3627 DGS-3627G DGS-3650 DWS-4026

Media Converters	DMC-300SC	DMC-515SC	DMC-530SC	DMC-700SC	DMC-810SC
Standards	10/100Base-TX 100Base-TX	10/100Base-TX 100Base-TX	10/100Base-TX 100Base-TX	100Base-TX 1000Base-SX	100Base-TX 1000Base-LX
Connectors	SC / RJ-45	SC / RJ-45	SC / RJ-45	SC / RJ-45	SC / RJ-45
Data Rate	100 Mbps	100 Mbps	100 Mbps	1 Gbps	1 Gbps
Fibre Type	Multi-Mode	Single-Mode	Single-Mode	Multi-Mode	Single-Mode
Max. Distance	2 Km	15 Km	30 Km	550 m	10 Km

Chassis & Accessories	DMC-1000	DMC-1001	DMC-1002
Description	16-slot Media Converter Chassis with internal Power Supply	Redundant Power Supply for DMC-1000	SNMP Management Module for DMC-1000

Power over Ethernet (PoE)

DWL and DPE Series

D-Link's Power over Ethernet (PoE) adapters are designed to help simplify network maintenance and deployments at offices, factories and Wi-Fi hot spots. These adapters allow surveillance cameras and wireless access points to be installed on building rooftops, ceilings or high walls where wall AC outlets may be inaccessible.

DWL-P50

5/12VDC PoE Splitter

Main Features
- Use with a PoE Switch or Midspan
- Supply Power to Devices

Physical Features
- IEEE 802.3af Power over Ethernet
- Terminal Unit x 1
- 5VDC and 12VDC Output
- Output Selection via DIP Switch

DWL-P200

5/12VDC PoE Kit

Main Features
- Use without a PoE Switch
- Supply Power to Devices

Physical Features
- Base Unit x 1
- Terminal Unit x 1
- 5VDC and 12VDC Output
- Output Selection via DIP Switch

DPE-101GI

1-Port Gigabit PoE Injector

Main Features
- Use without a PoE switch
- Supply Power to Devices

Physical Features
- Terminal Unit x 1
- Max Power Input 48 V
- Gigabit Speed
- To use only with D-Link's Access Points

Business Wireless

Wireless technology can offer businesses more flexible and inexpensive ways to send and receive data. D-Link's range of Wireless N products provide stable connectivity which is robust enough to be deployed at the very core of your network. They give greatly enhanced reliability and coverage, and include advanced security features to keep you completely safe from intrusion. Products under this category include Standalone/Managed Access Points, Single Band and Dualband Access Points and Antennas.

Range Overview

Wireless N Access Points

MANAGED

DWL-8600AP

UNMANAGED

DAP-1353

DAP-2553

DAP-2590

DAP-2690

FEATURES

Wireless A/G Access Points

MANAGED

DWL-3500AP

DWL-8500AP

UNMANAGED

DWL-2200AP

DWL-3260AP

DWL-3200AP

DWL-8200AP

FEATURES

Unified Solutions

64 Access Points

DWS-4026

48 Access Points

DWS-3024

24 Access Points

DWS-3024L

FEATURES

Wireless N Access Points

DAP and DWL Series

Model	DAP-1353	DAP-2553	DAP-2590	DAP-2690	DWL-8600AP
Wired Standards					
IEEE 802.3 10BASE-T	•	•	•	•	•
IEEE 802.3u 100BASE-TX	•	•	•	•	•
IEEE 802.3ab 1000BASE-T	•	•	•	•	•
Wireless Standards					
IEEE 802.11a		•	•	•	•
IEEE 802.11g	•	•	•	•	•
IEEE 802.11n	•	•	•	•	•
Simultaneous Dualband				•	•
Operation Modes					
AP Client Mode	•	•	•	•	•
Bridge (WDS) Mode	•	•	•	•	•
Bridge with AP Mode	•	•	•	•	•
Antenna Features					
No. of Antennas	3	3	3	4	4
Gain	3dBi	3dBi for 2.4Ghz & 5dBi for 5Ghz	3dBi for 2.4Ghz & 5dBi for 5Ghz	4dBi for 2.4Ghz & 6dBi for 5Ghz	6dBi for 5Ghz & 3dBi for 2.4Ghz
Detachable	•	•	•	•	•
Dipole Antenna	•	•	•	•	•
Directional Antenna					
Embedded Antenna					
Authentication Features					
64/128-Bit WEP	•	•	•	•	•
WPA/WPA2-PSK	•	•	•	•	•
WPA/WPA2-EAP	•	•	•	•	•
TKIP/AES	•	•	•	•	•
802.1X User Authentication		•		•	•
WPS (WiFi Protected Setup)					
Security Features					
MAC Address Filtering	•	•	•	•	•
SSID Broadcast Disable	•	•	•	•	•
Rogue AP Detection	•	•	•	•	•
WLAN Partition	•	•	•	•	•
802.1Q VLAN	•	•	•	•	•
Multiple SSIDs for Network Segmentation	•	•	•	•	•
Grouping Features					
Load Balancing	•	•	•	•	•
Link Integrity	•	•	•	•	•
User Limit	•	•	•	•	•
QoS Features					
WMM (WiFi Multimedia)	•	•	•	•	•
Networking Features					
DHCP Server	•	•	•	•	•
Auto-Channel Scan	•	•	•	•	•
Auto-Power Adjustment					•
Management Features					
SNMP	•	•	•	•	•
D-View	•	•	•	•	•
AP Manager Utility	APM II	APM II	APM II	APM II	APM II
Telnet	•	•	•	•	•
SSH	•	•	•	•	•
Management via Wireless Controller					•
Installation Features					
For Outdoor Usage					
802.3af Power over Ethernet		•	•	•	•
Zero-Configuration					

Wireless A/G Access Points

DWL Series

Model	DWL-2200AP	DWL-3260AP	DWL-3200AP	DWL-3500AP	DWL-8200AP	DWL-8500AP
Wired Standards						
IEEE 802.3 10BASE-T	•	•	•	•	•	•
IEEE 802.3u 100BASE-TX	•	•	•	•	•	•
IEEE 802.3ab 1000BASE-T						
Wireless Standards						
IEEE 802.11a					•	•
IEEE 802.11g	•	•	•	•	•	•
IEEE 802.11n						
Simultaneous Dualband					•	•
Operation Modes						
AP Client Mode						
Bridge (WDS) Mode	•	•	•	•	•	•
Bridge with AP Mode	•	•	•	•	•	•
Antenna Features						
No. of Antennas	1	1	2	2	2	2
Gain	5 dBi	1 dBi	5 dBi	5 dBi	2.5dBi for 2.4Ghz & 5.5dBi for 5Ghz	2.5dBi for 2.4Ghz & 5.5dBi for 5Ghz
Detachable	•		•	•	•	•
Dipole Antenna	•		•	•	•	•
Directional Antenna		•				
Embedded Antenna		•				
Authentication Features						
64/128-Bit WEP	•	•	•	•	•	•
WPA/WPA2-PSK	•	•	•	•	•	•
WPA/WPA2-EAP	•	•	•	•	•	•
TKIP/AES	•	•	•	•	•	•
802.1X User Authentication	•	•	•	•	•	•
WPS (WiFi Protected Setup)						
Security Features						
MAC Address Filtering	•	•	•	•	•	•
SSID Broadcast Disable	•	•	•	•	•	•
Rogue AP Detection		•	•	•	•	•
WLAN Partition	•	•	•	•	•	•
802.1Q VLAN	•	•	•	•	•	•
Multiple SSIDs for Network Segmentation	•	•	•	•	•	•
Grouping Features						
Load Balancing	•	•	•	•	•	•
Link Integrity	•	•	•	•	•	•
User Limit	•	•	•	•	•	•
QoS Features						
WMM (WiFi Multimedia)		•	•	•	•	•
Network Features						
DHCP Server	•	•	•	•	•	•
Auto-Channel Scan	•	•	•	•	•	•
Auto-Power Adjustment				•		•
Management Features						
SNMP	•	•	•	•	•	•
D-View			•	•	•	•
AP Manager Utility	APM I	APM II	APM II	APM II	APM II	APM II
Telnet	•	•	•	•	•	•
SSH		•	•	•	•	•
Management via Wireless Controller				•		•
Installation Features						
For Outdoor Usage						
802.3af Power over Ethernet	•	•	•	•	•	•
Zero-Configuration						

Unified Wired/Wireless Access System

DWS-4000 Series

D-Link's next generation L2+ Unified Wired/Wireless Switching Solution consists of a Gigabit switch with an array of advanced features and 802.11u support. It is a full-featured and cost-effective mobility solution for mid to large enterprises and service providers. It enables network administrators to have control, security, redundancy and reliability needed to scale and manage the wireless networks easily and efficiently.

Unified Switch

Wireless Management

- L2/L3 Fast Roaming
- Intra-Switch/Inter-Switch Roaming
- Centralised Security Policy/AP/Client Management & Monitoring
- Adaptive Wireless
- Automatic RF Channel Adjustment
- Automatic AP Transmit Output Power Adjustment
- AP-AP Tunnel
- AP Load Balancing
- AP Auto-Discovery & Firmware Dispatch
- AP Authentication
- RF Self-Healing
- Auto-VoIP
- Wi-Fi Multimedia (WMM)
- SpectraLink Voice Priority (SVP)
- Remote AP Reboot
- Visualised AP Management Tool
- Wireless Intrusion Detection & Prevention System (WIDS/WIPS)
- Rogue AP/Client Detection & Mitigation
- WPA/WPA2 Personal/Enterprise
- Captive Portal
- Station Isolation

Wired Management

- Internet Group Management Protocol (IGMP) Snooping
- Link Layer Discovery Protocol (LLDP)
- LLDP-Media Endpoint Discovery (LLDP-MED)
- Double VLAN (Q-in-Q)
- Selective Q-in-Q
- Subnet-Based VLAN
- IPv4 Static Route
- Routing Information Protocol (RIP)
- Virtual Router Redundancy Protocol (VRRP)
- Routing Information Protocol (RIP)
- Quality of Service (QoS)
- Traffic Shaping
- Bandwidth Control
- Access Control List
- 802.1X Port-based Access Control
- Guest VLAN
- Broadcast Storm Control

Unified Access Point

Managed Mode

- Centralised Management
- Centralised Firmware Dispatch
- Visualised AP Management Tool
- Auto-Power Adjustment
- Dynamic Auto-Channel Selection
- L2 Fast Roaming
- L3 Fast Roaming
- Captive Portal
- Rogue AP Mitigation
- Wireless Intrusion Detection & Prevention System (WIDS)

Standalone Mode

- Wireless Distribution System (WDS)
- AP Clustering
- Local Storage of Configuration

Managed & Standalone Mode

- WEP/WPA/WPA2 Security
- Rogue AP Detection
- Station Isolation
- MAC Address Filtering
- AP Load Balancing Setup
- Wi-Fi Multimedia
- SpectraLink Voice Priority (SVP)
- Unscheduled Automatic Power Save Delivery (U-APSD)

Unified Switch DWS-4026

- 10/100/1000BASE-T x 20 (PoE)
- Combo 1000BASE-T/SFP x 4
- 10G Expansion Slot x 2
- Redundant Power Supply
- Up to 256 APs per Cluster/ Peer Group

Unified Access Point DWL-8600AP

- 10/100/1000BASE-T x 1 (PoE)
- IEEE 802.11a Wireless LAN
- IEEE 802.11g Wireless LAN
- IEEE 803.11n Wireless LAN
- 6dBi @ 5GHz & 4dBi @ 2.4GHz Dual Band Dipole Antenna x 4
- Detachable Antenna with RP-SMA Interface
- External Power Adapter

Optional Accessories

Modules

DEM-410X	1-Port 10G XFP Module
DEM-410CX	1-Port 10G CX4 Module

10-Gigabit Ethernet XFP Transceivers

DEM-421XT	10GBASE-SR, MMF, 300m
DEM-422XT	10GBASE-LR, SMF, 10km
DEM-423XT	10GBASE-ER, SMF, 40km

Gigabit Ethernet SFP Transceivers

DEM-310GT	1000BASE-LX, SMF/MMF, 10km/2km
DEM-311GT	1000BASE-SX, MMF, 550m
DEM-312GT2	1000BASE-SX, MMF, 2km
DEM-314GT	1000BASE-LH, SMF, 50km
DEM-315GT	1000BASE-ZX, SMF, 80km
DGS-712	1000BASE-T, Copper, 100m

Gigabit Ethernet WDM SFP Transceivers

DEM-330T/R	1000BASE-BX, SMF, 10km
DEM-331T/R	1000BASE-BX, SMF, 40km

Unified Switch - DWS-4000 Series

Model		DWS-4026
IEEE LAN Standard		802.3; 802.3u; 802.3z; 802.3ab; 802.3ae; 802.3af
Port Interface	10/100/1000 BASE-T (RJ-45)	20 (PoE)
	Combo 1000BASE-T/SFP	4
	10 GE Slot	2
	XFP Module	DEM-410X
	CX4 Module	DEM-410CX
Stackability	Physical Stack	Via CX4/XFP Module; Duplex Chain/Ring Topology; Bi-Directional Redundant Stacking Topology; Up to 40Gbps (Full Duplex); Up to 12 Units Per Stack
General Features	Switch Capacity	88Gbps
	Forwarding Rate	65.47Mpps (Maximum)
	Forwarding Mode	Store and Forward
	Buffer Memory	750 KB
	MTBF	185,540 Hours
	Console Port	Female RS-232 DB-9 Console for Out-of-Band Configuration
WLAN Management Capability		Max. 64 APs Per Switch; Max. 256 APs Per Cluster; Max. 2048 Wireless Users (1024 Tunneled, 2048 Non-Tunneled)
Roaming		Fast Roaming (Wireless Adapter needs to support too); Intra-Switch / Inter-Switch Roaming; Intra-Subnet / Inter-Subnet Roaming; AP-AP-Tunnel
Access Control & Bandwidth Management		Max. 32 SSID Per AP (16 SSID Per RF Frequency Band); AP Load Balancing Based on the No. of Users or Utilisation Per AP
Managed Access Point		DWL-8600AP
AP Management		AP Auto-Discovery; Remote AP Reboot; AP Monitoring: List Managed AP, Authentication Failed AP, Rogue AP; Ad-Hoc Clients Monitoring; Client Monitoring: List Clients Associated with Each Managed AP; AP Authentication Supporting Local Database and External RADIUS Server; Centralised RF/Security Policy Management; Visualised AP Management Tool (Support up to 16 JPG Files); Unified AP Support (DWL-8600AP): Managed/Standalone Mode
WLAN Security		Wireless Intrusion Detection & Prevention System (WIDS); Rogue AP Mitigation; 64/128-bit WEP Data Encryption; Rogue and Valid AP Classification based on MAC Address; WPA Personal/Enterprise; WPA2 Personal/Enterprise; Wireless Station and AP Monitoring on RF Channel, MAC Address, SSID, Time; Captive Portal; Station Isolation; Encryption Type Support: WEP, WPA, Dynamic WEP, TKIP, AES-CCMP, EAP-FAST, EAP-TLS, EAP-TTLS, EAP-MD5, PEAP-GTC, PEAP-MS-CHAPv2, PEAP-TLS; MAC Authentication
L2 Features		MAC Address Table Size: 8K Entries; IGMP Snooping: 1K Multicast Groups; MLD Snooping; 802.1D STP, 802.1s Rapid STP, 802.1w Multiple STP; 802.3ad Link Aggregation: Max. 32 Groups, Max. 8 Ports Per Group; Jumbo Frame: Max. 9KBytes; 802.1ab Link Layer Discovery Protocol (LLDP); LLDP-MED; Port Mirroring: One-to-One, Many-to-One; Flow Control: 802.3x in Full Duplex, Back Pressure in Half Duplex, Head-of-Line Blocking Prevention
Virtual LAN (VLAN)		802.1Q Tagged VLAN; 802.1v Protocol VLAN; VLAN Groups: Max. 3,965 Entries; Subnet-based VLAN; GARP VLAN Registration Protocol (GVRP); MAC-based VLAN; Double VLAN; Voice VLAN
L3 Features		IPv4 Static Route; Routing Table Size: Max. 128 Static Routes; Floating Static Route; Proxy Address Resolution Protocol (ARP); Virtual Router Redundancy Protocol (VRRP); Routing Information Protocol (RIP) v1/v2
Quality of Service (QoS)		802.1p Priority Queues (Max. 8 Queues Per Port); Auto-VoIP; Minimum Bandwidth Guarantee Per Queue; Traffic Shaping Per Port; Per-Flow Bandwidth Control; CoS based on: Switch Port, VLAN, DSCP, TCP/UDP Port, TOS, Dest/Source MAC Address, Dest/Source IP Address
Access Control List (ACL)		ACL Based on: Switch Port, MAC Address, 802.1p Queues, VLAN, Ether Type, DSCP, IP Address, Protocol Type, TCP/UDP Port
LAN Security		RADIUS & TACACS+ Authentication for Management Access; Secure Shell (SSH) v1/v2; Secure Sockets Layer (SSL) v3; Transport Layer Security (TLS) v1; MAC Filtering; Denial of Service Protection; Dynamic ARP Inspection (DAI); Port Security: 20 MAC Per Port, Port Violation Notification; 802.1X Port-based Access Control and Guest VLAN; Broadcast Storm Control in Granularity of 1% of Link Speed; DHCP Snooping; Protected Port; DHCP Filtering
Management Methods		Web-Based GUI; Switch Clustering; RADIUS Accounting; Command Line Interface (CLI); Telnet Client; TFTP Client; Telnet Server: Max. 5 Sessions; sFlow; BootP/DHCP Client; DHCP Server; DHCP Relay; Dual Images; Port Description; Multiple Configuration Files; Dual Image Services; Simple Network Management Protocol (SNMP) v1/v2c/v3; Remote Monitoring (RMON) v1; Simple Network Time Protocol (SNTP); System Log
Physical & Environment	Dimension	19-inch; 1U Rack-Mount; 440 x 389 x 44mm (W x D x H)
	Weight	6kg
	Power Input	Input: 100-240 VAC, 50/60Hz; Internal Universal Power Supply
	Max. Power Consumption	525W (With All PoE Ports in Operation)
	PoE	Power Budget: 370A; Per Port: 15.4W
	RPS	DPS-600
	Temperature	0 to 40 °C (Operation); -10 to 70 °C (Storage)
	Humidity	10%~90% (Operation); 5%~90% (Storage) Non-Condensing
Certification	EMI-EMC	FCC Class A; CE; VCCI; C-Tick; ICES-003; EN 60601 1-2
	Safety	UL/cUL; CB

Unified Wired/Wireless Access System

DWS-3000 Series

D-Link's Unified Wired/Wireless Switching solution offers centralised management that greatly simplifies wireless deployment and significantly enhances access security, wireless throughput and network convergence.

Unified Switches

Wireless Management

- L2/L3 Fast Roaming
- Intra-Switch/Inter-Switch Roaming
- Centralised Security Policy/AP/Client Management & Monitoring
- Adaptable Wireless
- Automatic RF Channel Adjustment
- Automatic AP Transmit Output Power Adjustment
- AP Auto-Discovery & Firmware Dispatch
- AP Load Balancing
- AP Authentication
- Remote AP Reboot
- AP Self Healing
- Client Monitoring
- Wi-Fi Multimedia (WMM)
- SpectraLink Voice Priority (SVP)
- MAC Authentication
- WPA/WPA2 Personal/Enterprise
- Captive Portal
- Rogue AP Detection
- Station Isolation
- Visualisation AP Management Tool

Wired Management

- Internet Group Management Protocol (IGMP) Snooping
- Link Layer Discovery Protocol (LLDP)
- Double VLAN (Q-in-Q)
- Subnet-based VLAN
- IPv4 Static Route
- Virtual Router Redundancy Protocol (VRRP)
- Quality of Service (QoS)
- Traffic Shaping
- Access Control List
- 802.1X Port-based Access Control
- Guest VLAN
- Broadcast Storm Control

Optional Accessories

Gigabit Ethernet SFP Transceivers

DEM-310GT	1000BASE-LX, SMF/MMF, 10km/2km
DEM-311GT	1000BASE-SX, MMF, 550m
DEM-312GT2	1000BASE-SX, MMF, 2km
DEM-314GT	1000BASE-LH, SMF, 50km
DEM-315GT	1000BASE-ZX, SMF, 80km
DGS-712	1000BASE-T, Copper, 100m

Gigabit Ethernet WDM SFP Transceivers

DEM-330T/R	1000BASE-BX, SMF, 10km
DEM-331T/R	1000BASE-BX, SMF, 40km

Unified Access Points

Managed Mode

- Centralised Management
- Centralised Firmware Dispatch
- Auto-Power Adjustment
- Dynamic Auto-Channel Selection
- L2 Fast Roaming
- L3 Fast Roaming
- Captive Portal

Standalone Mode

- Local Storage of Configuration

Managed & Standalone Mode

- WEP/WPA/WPA2 Security
- Rogue AP Detection
- Station Isolation
- MAC Address Filtering
- AP Load Balancing Setup
- Wi-Fi Multimedia (WMM)
- SpectraLink Voice Priority

Unified Switches
DWS-3024

- 24 x Gigabit PoE Ports
- 4 x Copper/Fibre SFP Slots
- Complete Set of Layer 2+ Features
- Up to 48 APs per Switch
- Up to 192 APs per Peer Group

DWS-3024L

- 24 x Gigabit PoE Ports
- 4 x Copper/Fibre SFP Slots
- Complete Set of Layer 2+ Features
- Up to 24 APs per Switch
- Up to 96 APs per Peer Group

Unified Access Points
DWL-3500AP

- 1 x Gigabit PoE Ports
- IEEE 802.11b/g Wireless LAN
- Up to 8 SSID
- 802.1x Authentication
- Station Isolation
- Mounting Bracket Included

DWL-8500AP

- 1 x Gigabit PoE Ports
- IEEE 802.11a/b/g Wireless LAN
- Concurrent Wireless A/G at 2.4 and 5.0 GHz
- Up to 16 SSID
- 802.1x Authentication
- Station Isolation
- Mounting Bracket Included

DWL-8600AP

- 10/100/1000BASE-T x 1 (PoE)
- IEEE 802.11a/b/g/n Wireless LAN
- Concurrent Wireless N at 2.4 and 5.0 GHz
- Up to 32 SSID
- 802.1x Authentication
- Station Isolation
- Mounting Bracket Included

Unified Switches - DWS-3000 Series

Model		DWS-3024	DWL-3024L
IEEE LAN Standard		802.3; 802.3u; 802.3z; 802.3ab; 802.3ae; 802.3af	
Port Interface	10/100/1000 BASE-T (RJ-45)	20 (PoE)	
	Combo 1000BASE-T/SFP	4	
General Features	Switching Capacity	48Gbps	
	Maximum Forwarding Rate	35.71Mpps	
	Forwarding Mode	Store and Forward	
	Packet Buffer Memory	750 KB	
	MTBF	174,272 hours	
	Console Port	Female RS-232 DB-9 Console Port for Out-of-Band Configuration	
WLAN Management Capability		DWL-3024L: Max. 24 APs, DWL-3024 (Directly/Indirectly Connected through LAN Switch) Max. 2048 Wireless Users (1024 Tunneled, 2048 Non-Tunneled)	
Roaming		Fast Roaming (Wireless Adapter needs to support too); Intra-Switch / Inter-Switch Roaming; Intra-Subnet / Inter-Subnet Roaming	
Access Control & Bandwidth Management		Max. 16 SSID Per AP (8 SSID Per RF Frequency Band); AP Load Balancing based on the No. of Users/Utilisation Per AP	
Managed Access Point		DWL-3500AP; DWL-8500AP; DWL-8600AP	
AP Management		AP Auto-Discovery; Remote AP Reboot; AP Monitoring: List Managed AP, Authentication Failed AP, Rogue AP; Auto AP RF Channel Adjustment; Client Monitoring: List Clients Associated with each Managed AP; Ad-Hoc Clients Monitoring; AP Authentication with Local Database and External RADIUS Server; Centralised RF/Security Policy Management; Automatic AP Transmitted Output Power Adjustment	
WLAN Security		WPA Personal/Enterprise; WPA2 Personal/Enterprise; 64/128-bit WEP Data Encryption; MAC Authentication; Wireless Station & AP Monitoring on RF Channel, MAC Address, SSID, Time; Captive Portal; Station Isolation Rogue and Valid AP Classification based on MAC Address; Encryption Type: WEP, WPA, Dynamic WEP, TKIP, AES-CCMP, EAP-FAST, EAP-TLS, EAP-TTLS, EAP-MD5, PEAP-GTC, PEAP-MS-CHAPv2, PEAP-TLS	
L2 Features		MAC Address Table Size: 8K Entries; IGMP Snooping: 1K Multicast Groups; 802.1ab Link Layer Discovery Protocol (LLDP); 802.1D STP, 802.1w RSTP, 802.1s MSTP; 802.3ad Link Aggregation: Max. 32 Groups, Max. 8 Ports Per Group; Jumbo Frame: Max. 9Kbytes; Port Mirroring: One-to-One, Many-to-One	
Virtual LAN (VLAN)		802.1Q Tagged VLAN; VLAN Groups: Max. 3965; 802.1v Protocol VLAN; Subnet-based VLAN; MAC-based VLAN; Double VLAN; GARP VLAN Registration Protocol (GVRP)	
L3 Features		IPv4 Static Route; Routing Table Size: Max. 128 Static Routes; Floating Static Route; Proxy Address Resolution Protocol (ARP); Virtual Router Redundancy Protocol (VRRP);	
Quality of Service (QoS)		802.1p Priority Queues: Max. 8 Queues Per Port; Min. Bandwidth Guarantee Per Queue; Traffic Shaping; CoS based on: Switch Port, VLAN, DSCP, TCP/UDP Port, TOS, Dest/Source MAC Address, Dest/Source IP Address	
Access Control List (ACL)		ACL Based on: Switch Port, MAC Address, 802.1p Queues, VLAN, Ether Type, DSCP, IP Address, Protocol Type, TCP/UDP Port	
LAN Security		RADIUS & TACACS+ Authentication for Management Access; Secure Shell (SSH) v1/v2; Secure Sockets Layer (SSL) v3; Transport Layer Security (TLS) v1; MAC Filtering; Denial of Service Protection; DHCP Filtering; Protected Port; 802.1X Port-based Access Control & Guest VLAN; Port Security: 20 MAC Per Port, Trap Violation Notification; Broadcast Storm Control in Granularity of 1% of Link Speed	
Management Methods		Web-based GUI; Command Line Interface (CLI); System Log; Telnet Server: Max. 5 Sessions; Telnet Client; TFTP Client; Dual Images; Multiple Configuration Files; BootP/DHCP Client; Simple Network Management Protocol (SNMP) v1/v2c/v3; Remote Monitoring (RMON): 4 Groups; DHCP Server; Simple Network Time Protocol (SNTP)	
Physical & Environment	Dimension	19-inch; 1U Rack-Mount; 440 x 389 x 44mm (W x D x H)	
	Weight	6kg	
	Power Input	Input: 100-240VAC, 50/60Hz; Internal Universal Power Supply	
	Max. Power Consumption	450W (All PoE Ports in Operation)	
	PoE	Power Budget: 370A; Per Port: 15.4W	
	RPS	DPS-600	
	Temperature	0 to 40 °C (Operation); -10 to 70 °C (Storage)	
	Humidity	10%~90% (Operation); 5%~90% (Storage); Non-Condensing	
	Fan	4 40x40mm DC Fans	
Certification	EMI-EMC	FCC Class A; CE; VCCI; C-Tick; ICES-003; EN 60601 1-2	
	Safety	UL/cUL; CB	

Antennas - Single Band (2.4 GHz)

ANT Series

Monoband Antennae (2.4GHz)	ANT24-0800	ANT24-0801	ANT24-1200	ANT24-1201
Electrical				
Connector Type	N-Female	N-Female	SMA-Female	N-Female
Gain	8.0 dBi	8.5 dBi	12 dBi	12 dBi
Horizontal/Vertical Angle	360˚/15˚	65˚/65˚	80˚/23˚	50˚/50˚
Front to Back Ratio	15 dBi	15 dBi	15 dBi	15 dBi
Polarisation	Linear, Vertical	Linear, Vertical	Linear, Vertical	Linear, Vertical
Impedance	50 Ohms	50 Ohms	50 Ohms	50 Ohms
Physical and Environmental				
Survival Wind Speed	180 Km/h	216 Km/h	Indoor Only	216 Km/h
Operating Temperature	-40˚C to +80˚C	-40˚C to +80˚C	Indoor Only	-40˚C to +80˚C
Weight	0.34 Kg	0.3 Kg	0.19 Kg	0.3 Kg
Dimensions (mm)	Ø19 x 520	120 x 120 x 43	330 x 93 x 20.7	280 x 87 x 48
Material	Fibreglass	ABS, UV Resistant	ABS, UV Resistant	ABS, UV Resistant
Mounting Type	Wall and Pole	Wall and Pole	Wall	Wall and Pole

Monoband Antennae (2.4 GHz)	ANT24-1400	ANT24-1800	ANT24-2100
Electrical			
Connector Type	N-Female	N-Female	N-Female
Gain	14 dBi	18 dBi	21 dBi
Horizontal/Vertical angle	30˚/30˚	15˚/15˚	10˚/12˚
Front to Back Ratio	15 dBi	26 dBi	N/A
Polarisation	Linear, Vertical	Linear, Vertical	Linear, Vertical
Impedance	50 Ohms	50 Ohms	50 Ohms
Physical and Environmental			
Survival Wind Speed	216 Km/h	216 Km/h	216 Km/h
Operating Temperature	-40˚C to +80˚C	-40˚C to +80˚C	-40˚C to +70˚C
Weight	0.825 Kg	1.6 Kg	3.7 Kg
Dimensions (mm)	240 x 240 x 69.5	360 x 360 x 16	1,560 x 600 x 480
Material	ABS, UV Resistant	ABS, UV Resistant	ABS, UV Resistant
Mounting Type	Wall and Pole	Wall and Pole	Wall and Pole

Antennas - Dual Band (2.4/5 GHz)/Accessories

ANT Series

Dual Band Antennae (2.4 and 5GHz)	ANT70-1000	ANT70-1400N
Electrical		
Connector Type	N-Female	N-Female
Gain	8.5 dBi @ 2.4 GHz 10.5 dBi @ 5.0 GHz	11 dBi @ 2.4 GHz 12-14 dBi @ 5.1 GHz
Horizontal/Vertical Angle	58˚/55˚@ 2.4 GHz 45˚/45˚@ 5.0 GHz	40-44˚/38-41˚@ 2.4 GHz 19-22˚/25-31˚@ 5.1 GHz
Front to Back Ratio	15 dBi	20 dBi
Polarisation	Linear, Vertical	Linear, Vertical
Impedance	50 Ohms	50 Ohms
Physical and Environmental		
Survival Wind Speed	216 Km/h	216 Km/h
Operating Temperature	-40˚C to +80˚C	-40˚C to +80˚C
Weight	0.15 Kg	1.72 Kg
Dimensions (mm)	114 x 124 x 40	360 x 360 x 40
Material	ABS, UV Resistant	ABS, UV Resistant
Mounting Type	Wall	Wall and Pole

Accessories	ANT24-CB03N	ANT24-CB06N	ANT24-CB09N	ECB-ANT240500	ECB-ANT240800	ECB-ANT241200
Cable Type	HDF-400	HDF-400	HDF-400	ULA-198	ULA-198	ULA-198
Length (m.)	3	6	9	3	0.5	3
Cable Loss (dB)	1	2	3	2.5	0.4	2.5
Connection Type	N-Male N-Female	N-Male N-Female	N-Male N-Female	N-Male SMA-Female	N-Male SMA-Female	SMA-Male SMA-Female
Use With	Outdoor Antennae	Outdoor Antennae	Outdoor Antennae	Outdoor Antennae	Outdoor Antennae	ANT24-1200

Security

Protecting a network against attacks and unauthorised access is key to the survival of any business. D-Link's security solutions offer end to end defence to ensure all areas of the network are secured. Products under this category include Unified Threat Management (UTM) Firewalls and Unified Services Routers.

UTM Firewalls

Apart from IPS Firewall capabilities, NetDefend UTM Firewalls provide comprehensive security services, such as NetDefend IPS, Anti-Virus and Web Content Filtering.

- Transparent Mode
- Application Layer Gateway (ALG)
- IPSec/PPTP/L2TP VPN
- VPN Hub and Spoke
- Outbound Load Balancing
- Traffic Redirect at Fail-Over
- Guaranteed Bandwidth
- Intrusion Detection & Prevention System (IDP/IPS)
- HTTP Type Content Filtering
- Real Time Anti-Virus Scanning
- Anti-Virus over VPN
- Policy-Based Traffic Shaping
- WAN Failover
- HTTP/Script/Email Type Content Filtering
- External Database Content Filtering

Optional Accessories

Licenses

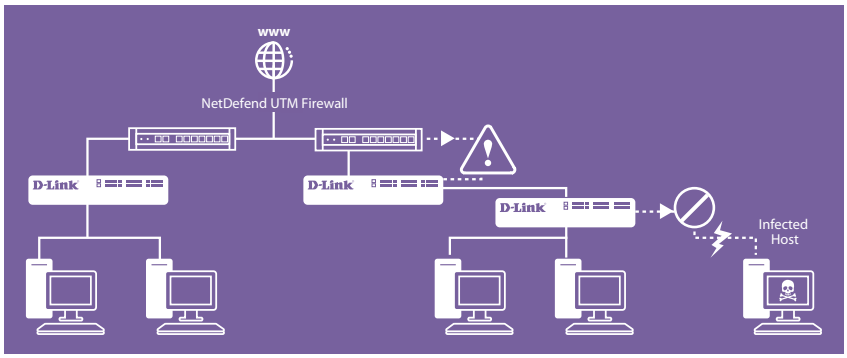
DFL-160-UTM-12P, DFL-160 IPS, AV & WCF License (12 Months)

NetDefend Security Service

IPS & Anti-Virus Signature License of one year and Web Content Filtering License of 90 days are shipped with the equipment.

Please register your product at **http://security.dlink.com.tw**

ZONEDEFENSE



You can enhance your security even further by using D-Link's NetDefend firewalls in conjunction with the xStack Managed Switches. This unique combination of D-Link's technology creates ZoneDefense, a proactive system that guards your network against internal security risks.

ZoneDefense will automatically detect an infected PC or other network device and instantly isolate it from the rest of the network. This makes it easier for you to locate an infectious site at the earliest opportunity and take remedial action quickly. And, by quarantining the problem at the first signs of infection, you can minimise any negative effects on the wider network.

Model	DFL-160
Interfaces	1 x Fast Ethernet WAN 4 x Gigabit LAN 1 x Gigabit DMZ 1 x USB
Firewall Throughput	70 Mbps
VPN Throughput	25 Mbps
Antivirus Throughput	15 Mbps
IDP/IPS Throughput	15 Mbps
Concurrent Sessions	6,000
Policies	300
Firewall System	NAT/PAT/NAT Traversal Modes
	Time-Scheduled Policies
	ALG (HTTP, FTP, TFTP, SMTP, POP3)
Networking	DHCP Server
	IGMP v3
VPN	30 Tunnels
	DES/3DES/AES/Twofish/Blowfish/ CAST-128
	PPTP/L2TP Server
	IPSec NAT Traversal
System Management	HTTP, HTTPS
	Firmware Upgrade
	Configuration Backup/Restore
User Authentication	Built-in Database
Logging and Monitoring	Internal/External Log
	Email Notification
	Event Log and Alarm
Traffic Load Balancing	Outbound Load Balancing (Round-Robin, WRR, Destination-Based, Spill-Over)
	Traffic Redirect at Fail-Over
Bandwidth Management	
	Guaranteed/Maximum/Priority Bandwidth
High Availability (HA)	
Intrusion Detection & Prevention System (IDP/IPS)	Automatic Pattern Update (Subscription-Based)
	DoS, DDoS Protection
	Attack Alarm via Email
Content Filtering	Automatic Database Update (Subscription-Based)
	URL & Email Blacklist/Whitelist
Anti-Virus	Automatic Signature Update (Subscription Based), from Kaspersky
	Compressed Files Scanning
	VPN Tunnels Scanning
Physical and Environmental	External Power Supply
	220 x 150 x 32.5 mm
	Desktop Size
	Operating Temperature 0 to 50 °C
	N/A

Unified Services Routers

Customised for small businesses, D-Link's Unified Services Routers are all-in-one gateway devices providing outstanding performance and rich functionalities, including IEEE 802.11n (ratified version), 3G WAN redundancy, IPv6 and comprehensive VPN features (SSL/IPSec/PPTP/L2TP).

- Static/Dynamic IP WAN Type
- Point-to-Point over Ethernet (PPPoE)
- SSL/IPSec/PPTP/L2TP VPN
- VPN Hub & Spoke
- IPSec/PPTP/L2TP VPN Pass-Through
- 3G WAN Redundancy (DSR-1000N only)
- Network Address Translation (NAT)
- Transparent Mode
- WAN Traffic Failover
- Outbound Load Balancing[1]
- Remote Management (Web, SNMP, SSH, Telnet)
- Internet Group Management Protocol (IGMP) Proxy/Snooping
- Stateful Packet Inspection (SPI)
- L2 to L7 Access Control
- IP/MAC Binding
- Virtual LAN (VLAN)
- Intrusion Prevention System (IPS)
- Wireless Security (WEP, WPA, WPA2, WPS)
- Multiple SSIDs
- SSID-to-VLAN Mapping
- IPv6 Phase 2 Certified

DSR-250N

- 10/100/1000BASE-T x 1 (WAN)
- 10/100/1000BASE-T x 8 (LAN)
- IEEE 802.11n Wireless LAN (2.4 GHz)
- USB 2.0 Port x1
- 2dBi Dipole Antennas x2 (Detachable)
- Internal Power Supply
- D-Link Green Technology

DSR-500N

- 10/100/1000BASE-T x 2 (WAN)
- 10/100/1000BASE-T x 4 (LAN)
- IEEE 802.11n Wireless LAN (2.4GHz)
- USB 2.0 Port x 1
- 2dBi Dipole Antenna x 3 (Detachable)
- Internal Power Supply
- D-Link Green Technology

DSR-1000N

- 10/100/1000BASE-T x 2 (WAN)
- 10/100/1000BASE-T x 4 (LAN)
- IEEE 802.11n Wireless LAN (2.4GHz + 5GHz)
- USB 2.0 Port x 2
- 2dBi Dipole Antenna x 3 (Detachable)
- 3G Support
- Internal Power Supply
- D-Link Green Technology

[1] DSR-500N, DSR-1000N only

Unified Services Routers

Model	DSR-250N	DSR-500N	DSR-1000N
Interfaces	1 x Gigabit ports (WAN)	2 x Gigabit Ports (WAN)	2 x Gigabit Ports (WAN)
	8 x Gigabit ports (LAN)	4 x Gigabit Ports (LAN)	4 x Gigabit Ports (LAN)
	1 x USB 2.0	1 x USB 2.0	2 x USB 2.0
Firewall Throughput	45 Mbps	70 Mbps	130 Mbps
VPN Throughput	35 Mbps	35 Mbps	70 Mbps
Concurrent Sessions	20,000	30,000	60,000
New Sessions (Per Second)	200	300	600
Firewall Policies	200	300	600
Internet Connection Type	Static/Dynamic IP, L2TP/PPTP/PPPoE/Multiple PPPoE		
Firewall System	NAT, PAT		
	Web Content Filtering (URL, Keywords)		
	Intrusion Prevention System (IPS)		
Networking	Static Routing	Static Routing, RIP v1/v2, OSPF[1]	
	Inter-VLAN Routing		
	Dynamic DNS		
	DHCP Server/Client/Relay		
	VLAN Support (Port-Based)		
	IGMP Proxy		
	Route Failover		
		3G Redundancy[2]	3G Redundancy
			Outbound Load Balancing
	IPv6 Support		
Wireless	802.11b/g/n		802.11a/b/g/n
	Single Frequency (2.4 GHz)		Concurrent Frequency (2.4 + 5 GHz)
	WEP/WPA/WPA2		
	PSK/EAP		
	Wi-Fi Protect Setup (WPS)		
VPN	25 Tunnels	35 Tunnels	70 Tunnels
	DES, 3DES, AES, Twofish, Blowfish, CAST-128, NULL		
	IPSec/PPTP/L2TP Server		
	IPSec NAT Traversal		
	Dead Peer Detection		
	IP Encapsulation Security Payload (ESP)		
	IP Authentication Header (AH)		
	VPN Tunnel Keep-Alive		
	Hub-and-Spoke		
SSL VPN	5 SSL VPN Tunnels	10 SSL VPN Tunnels	20 SSL VPN Tunnels
	DES, 3DES, AES		
	MD5, SHA1		
Bandwidth Management	Max. Bandwidth Control		
	Priority Bandwidth Control (Port-Based QoS, 3 Classes)		
System Management	HTTP, HTTPS, CLI		
	SNMP v1, v2c, v3		
Physical and Environmental	Internal Power Supply		
	12.6 W Max	16.8 W Max	19.3 W Max
	140 x 203 x 35 mm	180 x 280 x 44 mm	
	Operating Temperature 0 to 40 °C		
	Operating Humidity 5% to 95% RH Non-Condensing		
	250,000 Hours MTBF	260,000 Hours MTBF	

[1] DSR-500N, DSR-1000N only
[2] Available in the future

IP Surveillance

The security of your business is at risk if there is no monitoring system in place to protect your business assets. Choosing to implement IP Surveillance offers the advantage of leveraging your existing network infrastructure to maximise investment. IP Surveillance provides all of the superior functionality of an effective analogue CCTV offering, but adds several key benefits, such as increased accessibility, real-time alerts, unlimited storage and secure image distribution, and superior cost benefits. Products under this category include IP Cameras, Network Video Recorders, Camera Accessories and Video Encoders.

Range Overview

Fixed Cameras (Indoors)

WIRELESS

DCS-930L

DCS-932L

DCS-1130

DCS-2230

DCS-3430

WIRED

DCS-1130

DCS-2210

DCS-3411

DCS-3415

DCS-3710

DCS-3716

FEATURES

Fixed Cameras (Outdoors)

DCS-3716

DCS-7110

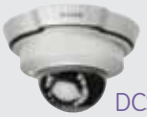
DCS-7410

DCS-7510

FEATURES

Dome Cameras (Fixed)

DAY & NIGHT


DCS-6111

DCS-6113

DCS-6511

DAY ONLY

DCS-6112

FEATURES

PTZ Cameras

OUTDOORS

DCS-6616

DCS-6815

DCS-6818

INDOORS

DCS-5230

DCS-5605

DCS-5635

FEATURES

Fixed IP Cameras (Indoor)

D-Link offers a wide range of fixed IP cameras to meet different surveillance requirements from indoor to outdoor and from day to night. The fixed IP cameras are reliable, economical and of high-quality. The cameras can be connected to a network to provide a fixed viewing direction once they are mounted.

DCS-930L

Wireless N Home IP Camera

mydlink

Wireless N & G | 100Mbps LAN x1

Main Features
- MJPEG Compression
- Remote Monitoring
- Free iPhone/Android Apps
- Samba Client for Network NAS

Physical Features
- 1/5" VGA CMOS Sensor
- Built-in Microphone
- Internal Antenna

DCS-932L

Wireless N Day and Night Home IP Camera

mydlink

Wireless N & G | 100Mbps LAN x1

Main Features
- MJPEG Compression
- Remote Monitoring
- Free iPhone/Android Apps
- Samba Client for Network NAS

Physical Features
- 1/5" VGA CMOS Sensor
- Built-in Microphone
- Internal Antenna
- IR Illuminators

DCS-1130

Wireless N IP Camera

Wireless N & G | 100Mbps LAN x1

Main Features
- Simultaneous MJPEG/MPEG-4 Streams
- 3GPP Mobile Surveillance
- Samba Client for Network NAS

Physical Features
- 1/4" VGA CMOS Sensor
- Built-in Microphone
- 2 x Detachable Antenna

DCS-2130

HD Cube IP Camera

Wireless N & G | 100Mbps LAN x1

Main Features
- Simulatenous H.264, MPEG-4, MJPEG Streams
- HD Resolution
- Privacy Masks
- ePTZ Image Manipulation
- 2-way Audio Support
- Samba Client for Network NAS

Physical Features
- 1/4" Progressive CMOS Sensor
- DI x 1, DO x 1
- MicroSD Card Slot
- Internal Antenna

DCS-2210

Full HD Cube IP Camera

100Mbps LAN x1

Main Features
- Simulatenous H.264, MPEG-4, MJPEG Streams
- Full HD Resolution
- Privacy Masks
- ePTZ Image Manipulation
- 2-way Audio Support
- Samba Client for Network NAS

Physical Features
- 2 Megapixel Progressive CMOS Sensor
- MicroSD Card Slot
- DI x 1, DO x 1
- IR Illuminator and IR-Cut Filter
- Built-in PIR Sensor

DCS-2230

Full HD Cube IP Camera

Wireless N & G | 100Mbps LAN x1

Main Features
- Simulatenous H.264, MPEG-4, MJPEG Streams
- Full HD Resolution
- Privacy Masks
- ePTZ Image Manipulation
- 2-way Audio Support
- Samba Client for Network NAS

Physical Features
- 2 Megapixel Progressive CMOS Sensor
- MicroSD Card Slot
- DI x 1, DO x 1
- IR Illuminator and IR-Cut Filter
- Built-in PIR Sensor
- Internal Antenna

Fixed IP Cameras (Indoor)

Model	DCS-930L	DCS-932L	DCS-1130	DCS-2130	DCS-2210	DCS-2230
Image Sensor						
Type	1/5" Progressive Scan CMOS	1/5" Progressive Scan CMOS	1/4" Progressive Scan CMOS	1/4" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS	1/2.7" Progressive Scan CMOS
Megapixel				•	•	•
Wide Dynamic Range (WDR)						
Maximum Video Resolution	640 x 480	640 x 480	640 x 480	1280 x 800	1920 x 1080	1920 x 1080
Lens						
Type	Fixed	Fixed	Fixed	Fixed	Fixed	Fixed
Focal Length	5.01 mm	5.01 mm	5.01 mm	3.45 mm	4.37 mm	4.37 mm
F-Number	F2.8	F2.8	F2.8	F2.0	F2.0	F2.0
Minimum Illumination (Lux)	1 Lux	1 Lux	1 Lux	1.0 Lux	0 Lux (with IR Illuminator)	0 Lux (with IR Illuminator)
Angle of View (Horizontal/Vertical)	45.3°/34.5°	45.3°/34.5°		57.8°/ 37.8°	67.4°/40.8°	67.4°/40.8°
Motorised Pan/Tilt						
Optical Zoom						
Privacy Masks				•	•	•
Day & Night						
Dual-Band Filter						
ICR Filter		•			•	•
IR Built-in		5m			5m	5m
Audio						
2-Way Audio				•	•	•
Built-in Microphone	•	•	•	•	•	•
External Microphone Input						
Built-in Speaker					•	•
External Speaker Output				•		
Connectivity						
Wired LAN			10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)
Wireless LAN	802.11n, 802.11g	802.11n, 802.11g	802.11n, 802.11g	802.11n, 802.11g		802.11n, 802.11g
802.3af PoE					•	
Digital Input/Output				DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1
RS-485 Interface						
Monitor Output						
External Card Slot				Micro SD	Micro SD	Micro SD
Software Features						
Video Format	MJPEG	MJPEG	MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG
Multi-Stream			•	•	•	•
Multi-Profile			•			
Digital Zoom	4X	4X	16X	10X	10X	10X
HTTP Secure (HTTPS)					•	•
Java Support	•	•	•			
Motion Detection	•	•	•	•	•	•
E-Mail Notification	•	•	•	•	•	•
Schedule Recording to Hard Drive	•	•	•	•	•	•
Recording to NAS	•	•	•	•	•	•
Audio Recording	•	•	•	•	•	•
Video Output to 3GPP			•	•	•	•
UPnP Installation	•	•	•	•	•	•
DDNS Support	•	•	•	•	•	•
Enable/Disable LED Indicators						
D-ViewCam Compatible	•	•	•	•	•	•
Physical and Environmental						
Dimensions	27.2 (D) x 60 (W) x 96 (H) mm	27.2 (D) x 60 (W) x 96 (H) mm	80 (W) x 120 (H) x 31 (D) mm	95 (H) x 58 (W) x 30.7 (D) mm	95 (H) x 58 (W) x 30.7 (D) mm	95 (H) x 58 (W) x 30.7 (D) mm
Weight	0.769 Kg	0.769 Kg	0.280 Kg	0.069 Kg	0.069 Kg	0.70 Kg
Max. Power Consumption	2 Watt	2 Watt	6.3 Watt	2.5 Watt	2 Watt	2.5 Watt
Operating Temperature	0 ˚C to 40 ˚C	0 ˚C to 40 ˚C	0 to 40 ˚C	0 to 40 ˚C	0 to 40°C	0 to 40°C
Operating Humidity	20-80% RH Non-condensing	20-80% RH Non-condensing	20-80% RH Non-condensing	20% to 80% Non-condensing	20% to 80% Non-condensing	20% to 80% Non-condensing

Fixed IP Cameras (Outdoor)

D-Link offers a wide range of fixed IP cameras to meet different surveillance requirements from indoor to outdoor and from day to night. The fixed IP cameras are reliable, economical and of high-quality. The cameras can be connected to a network to provide a fixed viewing direction once they are mounted.

DCS-3411

PoE D&N Camera

Power over Ethernet
100Mbps LAN x1

Main Features
- H.264/MPEG4/MJPEG
- 4 Concurrent Video Profiles
- Day and Night Monitoring
- 3GPP Mobile Surveillance
- 2-Way Audio
- PoE Support
- Samba Client for Network NAS

Physical Features
- CMOS Sensor, CS Mount Lens
- IR Cut Removable (ICR) Filter
- SD Card Slot
- Digital Input/Digital Output
- BNC Output, Audio Line In/Out

Optional Accessories
- DCS-60 (Outdoor Enclosure)

DCS-3430

Wireless N D&N Camera

100Mbps LAN x1
Wireless N & G

Main Features
- MJPEG/MPEG4/H.264 Multi-Profile Compression
- 4 Concurrent Video Profiles
- Day and Night Monitoring
- 3GPP Mobile Surveillance
- 2-Way Audio
- Samba Client for Network NAS

Physical Features
- CMOS Sensor, CS Mount Lens
- IR Cut Removable (ICR) Filter
- SD Card Slot
- Digital Input/Digital Output
- BNC Output, Audio Line In/Out

Optional Accessories
- DWL-P50 (PoE Splitter)

DCS-3415

18x PoE Camera

100Mbps LAN x1
Power over Ethernet
18x Optical Zoom

Main Features
- MPEG4/MJPEG Dual-Stream
- Day and Night Monitoring
- 3GPP Mobile Surveillance
- 2-Way Audio
- Samba Client for NAS

Physical Features
- Sony Progressive Scan CCD Sensor
- IR Cut Removable (ICR) Filter
- CF Card Slot
- Digital Input/Digital Output
- Audio Line In/Out

Optional Accessories
- DCS-60 (Outdoor Enclosure)

DCS-3710

HDTV WDR Camera

100Mbps LAN x1
Power over Ethernet

Main Features
- MPEG4/MJPEG Multi-Profile
- 3GPP Mobile Surveillance
- Low-Light Recording
- Samba Client for NAS
- HTTPS, Privacy Mask
- HDTV Resolution
- Wide Dynamic Range (WDR)

Physical Features
- 1.3 Megapixel WDR Progressive Scan
- CMOS Sensor
- Vari-Focal DC-Iris Lens
- IR Cut Removable (ICR) Filter
- SD Card Slot
- Digital Input/Digital Output
- BNC Output, Audio Line In/Out

Optional Accessories
- DCS-60 (Outdoor Enclosure)

DCS-3716

Full HD Day & Night WDR IP Camera

Power over Ethernet
100Mbps LAN x1

Main Features
- H.264/MPEG4/MJPEG Multi-Profile
- 3GPP Mobile Surveillance
- RS-485 Interface
- Full HD Resolution
- 3GPP Support
- Samba Client for Network NAS
- Wide Dynamic Range (WDR)

Physical Features
- 3 Megapixel Progressive CMOS Sensor
- IR Cut Removable (ICR) Filter
- Built-in Removable IR Cut filter
- DI x 2, DO x 1
- Analogue BNC output
- Vari-Focal DC-Iris Lens
- 2-Way Audio Support

Fixed IP Cameras (Outdoor)

Model	DCS-3411	DCS-3430	DCS-3415	DCS-3710	DCS-3716
Image Sensor					
Type	1/4" Progressive Scan CMOS	1/4" Progressive Scan CMOS	1/4" Sony Progressive Scan CMOS	1/4" Progressive Scan CMOS	Sony Exmor 1/2.8" Progressive Scan CMOS
Megapixel				•	•
Wide Dynamic Range (WDR)				•	•
Maximum Video Resolution	640 x 480	640 x 480	640 x 480	1280 x 960	2048 X 1536
Lens					
Type	CS Mount	CS Mount	Fixed	Varifocal, DC-Iris	Varifocal, DC-Iris
Focal Length	6mm	6 mm	4.1 ~ 73.8 mm	2.8 ~12 mm	3.1 ~ 8.0 mm
F-Number	F1.8	F1.8	F1.4 ~ F3.0	F1.3	F1.2
Minimum Illumination (Lux)	0.5 Lux (typical) 0 Lux (10m with IR Lens)	0.5 Lux (Typical) 0 Lux (10m with IR Lens)	1.6 Lux (Typical) 0.38 Lux (with IRC On)	0.1 Lux (Colour) 0.02 Lux (B/W)	1 Lux 0.5 Lux (colour); 0.05 Lux (B/W)
Angle of View (Horizontal/Vertical)	41°/ 31°	41°/ 31°	48°~ 2.8° / -	102.2°~ 23.7° / -	38.7° ~ 95.9° / 29.1° ~ 71.0°
Motorised Pan/Tilt					
Optical Zoom			18X		
Privacy Masks					•
Day & Night					
Dual-Band Filter					
ICR Filter	•	•	•	•	•
IR Built-in					
Audio					
2-Way Audio	•	•	•	•	•
Built-in Microphone	•	•	•		
External Microphone Input	•	•	•	•	•
Built-in Speaker					
External Speaker Output	•	•	•	•	•
Connectivity					
Wired LAN	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)
Wireless LAN		802.11n, 802.1g			
802.3af PoE	•		•	•	•
Digital Input/Output	DI x 2, DO x 1	DI x 2, DO x 1	DI x 1, DO x 1	DI x 2, DO x 1	DI x 2, DO x 1
RS-485 Interface	•	•	•	•	•
Monitor Output	BNC output	BNC Output		BNC Output	BNC output
External Card Slot	SD Card	SD Card	CF Card	SD Card	SD Card
Software Features					
Video Format	H.264, MPEG-4, MJPEG	MJPEG, MPEG-4, H.264	MJPEG, MPEG-4	MJPEG, MPEG-4	H.264, MPEG-4, MJPEG
Multi-Stream	•		•		•
Multi-Profile	•	•		•	•
Digital Zoom	16X	16X	4X	10X	10X
HTTP Secure (HTTPS)				•	•
Java Support	•	•			
Motion Detection	•	•	•	•	•
E-Mail Notification	•	•	•	•	•
Schedule Recording to Hard Drive	•	•	•	•	•
Recording to NAS	•	•	•	•	•
Audio Recording	•	•	•	•	•
Video Output to 3GPP	•	•	•	•	•
UPnP Installation	•	•	•	•	•
DDNS Support	•	•	•	•	•
Enable/Disable LED Indicators	•	•	•	•	•
D-ViewCam Compatible	•	•	•	•	•
Physical and Environmental					
Dimensions	177 (L) x 78 (W) x 60 (H) mm	78 x 177 x 60 mm	80 x 143.5 x 92.4 mm	80 x 140 x 53 mm	80 x 140 x 53 mm
Weight	0.5778 Kg	0.578 Kg	1.012 Kg	0.576 Kg	0.580 Kg
Max. Power Consumption	5.484 W	6.9 W	5.4 W	2 W	4 W
Operating Temperature	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C	0 to 40 °C
Operating Humidity	20% to 80% Non-Condensing	20% to 80% Non-Condensing	20% to 80% Non-Condensing	20% to 80% Non-Condensing	20% to 80% Non-Condensing
Accessories					
Optional Outdoor Enclosure	DCS-60		DCS-60	DCS-60	DCS-60
Mounting Options					

Fixed IP Cameras (Outdoor)

DCS-7110

HD Outdoor Day & Night IP Camera

Main Features

- H.264/MPEG4/MJPEG Multi-Profile
- HDTV Resolution
- 3GPP Mobile Surveillance
- Privacy Mask
- ONVIF Compliant
- IPv6 Support

Physical Features

- Colour CMOS Sensor
- ICR Filter
- Built-in 15m IR LED
- Digital Input/Digital Output
- RS-485 Interface
- IP66 Certified Casing for Outdoor Use

DCS-7410

D&N Outdoor PoE Camera

Main Features

- MPEG4/MJPEG Multi-Profile
- Day and Night Monitoring
- 3GPP Mobile Surveillance
- 2-Way Audio
- Samba Client for NAS

Physical Features

- Colour CCD Sensor
- Dual-Band Filter
- Built-in 30m IR LED
- Digital Input/Digital Output
- BNC Video Output
- Audio Line In/Out
- IP66 Certified Casing for Outdoor Use

DCS-7510

D&N Outdoor PoE Camera

Main Features

- MPEG4/MJPEG Multi-Profile
- Day and Night Monitoring
- 3GPP Mobile Surveillance
- 2-Way Audio
- Samba Client for NAS

Physical Features

- Colour CCD Sensor
- Vari-Focal Auto-Iris Lens
- IR Cut Removable (ICR) Filter
- Built-in 50m IR LED
- Digital Input/Digital Output
- BNC Video Output
- Audio Line In/Out
- IP66 Certified Casing for Outdoor Use

Fixed IP Cameras (Outdoor)

Model	DCS-7110	DCS-7410	DCS-7510
Image Sensor			
Type	1/4" Progressive CMOS	1/3" Colour CCD	1/3" Colour CCD
Megapixel	•		
Wide Dynamic Range (WDR)			
Maximum Video Resolution (Pixels)	1280 x 800	NTSC: 720 x 480 PAL: 720 x 576	NTSC: 720 x 480 PAL: 720 x 576
Lens			
Type	Fixed	Fixed	Varifocal, Auto-Iris
Focal Length	4 mm	12 mm	9 ~ 22 mm
F-Number	F1.5	F1.4	F1.5 ~ 360
Minimum Illumination (Lux)	1 Lux	0.7 Lux	1 Lux
Angle of View (Horizontal/Vertical)	65.4˚	22˚/ 17˚	31˚~ 13˚ / 23˚~ 10˚
Motorised Pan/Tilt			
Optical Zoom			
Day & Night			
Dual-Band Filter		•	
ICR Filter	•		•
IR Built-in	15m	30m	50m
Audio			
2-Way Audio		•	•
Built-in Microphone			
External Microphone Input		•	•
Built-in Speaker			
External Speaker Output		•	•
Connectivity			
Wired LAN	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)
Wireless LAN			
802.3af PoE	•	•	•
Digital Input/Output	DI x 1, DO x 1	DI x 2, DO x 1	DI x 2, DO x 1
RS-485 Interface	•	•	•
Monitor Output		BNC Output	BNC Output
External Card Slot			
Software Features			
Video Format	H.264, MJPEG, MPEG-4	MJPEG, MPEG-4	MJPEG, MPEG-4
Multi-Stream	•		
Multi-Profile	•	•	•
Digital Zoom	4X	16X	16X
HTTP Secure (HTTPS)	•		
Java Support		•	•
Motion Detection	•	•	•
E-Mail Notification	•	•	•
Schedule Recording to Hard Drive	•	•	•
Recording to NAS	•	•	•
Audio Recording		•	•
Video Output to 3GPP	•	•	•
UPnP Installation	•	•	•
DDNS Support	•	•	•
Enable/Disable LED Indicators			
D-ViewCam Compatible	•	•	•
Physical and Environmental			
Dimensions	197 x 73 x 71 mm	240 x 8.79 x 84.1 mm	240 x 8.79 x 109.1 mm
Weight	0.783 Kg	1.63 Kg	1.72 Kg
Max. Power Consumption	6 Watt	11.72 Watt	12 Watt
Operating Temperature	-20 to 50˚C	-20 to 45˚C	-20 to 45˚C
Operating Humidity	90% Non-Condensing	20% to 80% Non-Condensing	20% to 80% Non-Condensing
Accessories			
Optional Outdoor Enclosure	Not needed (IP66)	Not needed (IP66)	Not needed (IP66)
Mounting Options			

Fixed Dome IP Cameras

D-Link's high-performance fixed dome IP cameras provide the necessary professional look and surveillance for business environments, and are especially popular with CCTV. They are equipped with progressive CMOS technology which delivers exceptional picture quality.

D-Link's D-ViewCam software, which is included with the cameras, provides the ability to view up to 32 camera sites concurrently with a single computer screen at a central location.

DCS-6111

Fixed Dome Camera

100Mbps LAN x1 Power over Ethernet

Main Features
- MPEG4/MJPEG Dual-Stream
- Day and Night Monitoring
- 3GPP Mobile Surveillance
- 2-Way Audio
- Samba Client for NAS
- HTTPS, IPv6, Privacy Mask
- Link Layer Topology Discovery
- Wide Dynamic Range (WDR)

Physical Features
- WDR VGA CMOS Sensor
- Vari-Focal, Board Mount Lens
- Built-in 20m IR LED
- IR-Cut Removable (ICR) Filter
- Digital Input/Digital Output
- Audio Line In/Out
- 3-Axis Mechanical Design

DCS-6112

Full HD Fixed Dome IP Camera

100Mbps LAN x1 Power over Ethernet

Main Features
- H.264, MPEG-4, MJPEG
- Full HD Resolution
- 2 Way Audio
- Privacy Masks
- 3GPP Support
- Samba Client for Network NAS

Physical Features
- 2 Megapixel Progressive CMOS Sensor
- Digital Input/Digital Output
- MicroSD Card Slot

DCS-6113

Full HD Fixed Dome IP Camera

100Mbps LAN x1 Power over Ethernet

Main Features
- H.264, MPEG-4, MJPEG
- Full HD Resolution
- 2 Way Audio
- Privacy Masks
- 3GPP Support
- Samba Client for Network NAS

Physical Features
- 2 Megapixel Progressive CMOS Sensor
- Digital Input/Digital Output
- IR Illuminators
- Built-in Removable IR-Cut Filter
- MicroSD Card Slot

DCS-6511

HD Fixed Dome Day and Night Network Camera

100Mbps LAN x1 Power over Ethernet

Main Features
- H.264/MJPEG/MPEG4 Multi-Profile
- HDTV Resolution
- 3GPP Mobile Surveillance
- Privacy Mask
- Wide Dynamic Range (WDR)

Physical Features
- Color CMOS Sensor
- Motorised Varifocal Autofocus Lens
- IR Cut Removable (ICR) Filter
- Built-in 20m IR LED
- Digital Input/Digital Output
- Audio Line In/Out
- Vandal-Proof Dome
- IP66 Certified Casing for Outdoor Use

Fixed Dome IP Cameras

Model	DCS-6111	DCS-6112	DCS-6113	DCS-6511
Image Sensor				
Type	1/4" Progressive Scan CMOS	1/2.7" 2 Megapixel Progressive Scan CMOS	1/2.7" 2 Megapixel Progressive Scan CMOS	1/4" Progressive Scan CMOS
Megapixel		•	•	•
Wide Dynamic Range (WDR)				•
Maximum Video Resolution (Pixels)	640 x 480	1920 x 1080	1920 x 1080	1280 x 1024
Lens				
Type	Varifocal, Board Mount	Fixed	Fixed	Motorised Varifocal
Focal Length	3.3 ~12 mm	4.0 mm	4.0 mm	3.3 ~12 mm
F-Number	F1.4 ~ F2.9	F1.5	F1.5	F1.4
Minimum Illumination (Lux)	1.5 Lux	0.12 Lux	0 Lux (with IR Illuminator)	0.2 Lux (Colour) 0 Lux (B/W)
Angle of View (Horizontal/Vertical)	63˚~ 18˚/ 47˚~ 13˚	77.4°	77.4°	89˚~ 23˚/ 63˚~ 17˚
Motorised Pan/Tilt				
Optical Zoom				
Privacy Masks		•	•	
Day & Night				
Dual-Band Filter				
ICR Filter	•		•	•
IR Built-in	20m		10m	20m
Audio				
2-Way Audio	•	•	•	•
Built-in Microphone		•	•	
External Microphone Input	•	•	•	•
Built-in Speaker				
External Speaker Output	•			•
Connectivity				
Wired LAN	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)
Wireless LAN				
802.3af PoE	•	•	•	•
Digital Input/Output	DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1	DI x 2, DO x 1
RS-485 Interface				
Monitor Output		BNC Output	BNC Output	BNC Output
External Card Slot		Micro SD	Micro SD	SD Card
Software Features				
Video Format	MJPEG, MPEG-4	H.264, MPEG-4, MJPEG	H.264, MPEG-4, MJPEG	MJPEG, MPEG-4, H.264
Multi-Stream	•	•	•	•
Multi-Profile				•
Digital Zoom	4X	16X	16X	10X
HTTP Secure (HTTPS)	•	•	•	•
Java Support				
Motion Detection	•	•	•	•
E-Mail Notification	•	•	•	•
Schedule Recording to Hard Drive	•	•	•	•
Recording to NAS	•	•	•	•
Audio Recording	•	•	•	•
Video Output to 3GPP	•	•	•	•
UPnP Installation	•	•	•	•
DDNS Support	•	•	•	•
Enable/Disable LED Indicators	•			•
D-ViewCam Compatible	•	•	•	•
Physical and Environmental				
Dimensions	194 x 180 x 107 mm	130 x 97.80 mm (Ø x H)	130 x 97.80 mm (Ø x H)	127 x 151.79 x 191.8 mm
Weight	0.65 Kg	0.466 Kg	0.472 Kg	1.030 Kg
Max. Power Consumption	11 W	4.4 W	5.3 W	
Operating Temperature	0 to 40˚C	0 to 40 °C	0 to 40°C	-40 to 50˚C
Operating Humidity	20% to 80% Non-Condensing	90% Non-Condensing	90% Non-Condensing	20% to 80% Non-Condensing
Accessories				
Optional Outdoor Enclosure				Not Needed (IP66)
Mounting Options				DCS-34-1 (Included) DCS-34-2 DCS-34-3

Pan, Tilt, Zoom (PTZ) IP Cameras

These high speed dome cameras feature endless (360º) pan for wide range surveillance. Equipped with outdoor enclosure and ultra low lux CCD sensor and ICR support, these cameras are very useful for many applications. They have many preset points and an auto patrol cruise that can work as a multiple camera inside or outside a building.

DCS-5220

Wireless G PTZ IP Camera

100Mbps LAN x1 Wireless N & G

Main Features
- MPEG-4, MJPEG
- 4x Digital Zoom
- 3GPP Support
- Samba Client for Network NAS

Physical Features
- 1/4" CMOS Sensor
- 2x External Antenna

DCS-5230

Wireless N PTZ IP Camera

100Mbps LAN x1 Wireless N & G

Main Features
- MPEG-4, MJPEG
- 16x Digital Zoom
- 3GPP Support
- Samba Client for Network NAS

Physical Features
- 1/3" 1.3 Megapixel CMOS
- IR Illuminators
- Dual-Band Filter
- MicroSD Card Slot
- Internal Antenna

DCS-5605

H.264 PTZ Camera

100Mbps LAN x1 10x Optical Zoom

Main Features
- MJPEG/MPEG4/H.264 Multi-Profile Compression
- 4 Concurrent Video Profiles
- Day and Night Monitoring
- 3GPP/RTSP Mobile Surveillance
- 2-Way Audio, Privacy Mask
- Samba Client for NAS

Physical Features
- Samsung De-Interlace CCD Sensor
- IR Cut Removable (ICR) Filter
- MicroSD Card Slot
- Digital Input/Digital Output
- RS-485 Interface
- AV Video Out Output
- Audio Line In/Out

DCS-5635

Wireless N PTZ Camera

100Mbps LAN x1 Wireless N & G 10x Optical Zoom

Main Features
- MJPEG/MPEG4/H.264 Multi-Profile Compression
- 4 Concurrent Video Profiles
- Day and Night Monitoring
- 3GPP/RTSP Mobile Surveillance
- 2-Way Audio, Privacy Mask
- Samba Client for NAS

Physical Features
- Samsung De-Interlace CCD Sensor
- IR Cut Removable (ICR) Filter
- MicroSD Card Slot
- Digital Input/Digital Output
- RS-485 Interface
- AV Video Out Output
- Audio Line In/Out

DCS-6616

12x Speed Dome IP Camera

100Mbps LAN x1 12x Optical Zoom

Main Features
- H.264, MPEG-4, MJPEG
- Day & Night Monitoring
- Wide Dynamic Range
- Privacy Mask feature

Physical Features
- Sony Super HAD-II 1/4" CCD
- IR-Cut Removable (ICR) Filter
- Digital Input x 8
- Digital Output x 1
- 2-Way Audio Support

DCS-6815

18x Speed Dome Camera

100Mbps LAN x1 18x Optical Zoom

Main Features
- MPEG4/MJPEG
- Day and Night Monitoring
- Wide Dynamic Range (WDR)
- 256 Preset Points
- Auto Cruise PTZ
- Privacy Mask

Physical Features
- Sony Exview CCD Sensor
- Auto Iris Lens
- IR-Cut Removable (ICR) Filter
- Dual-Band Filter
- Digital Input x 8
- Digital Output x 1
- BNC Video Output
- Built-in Fan and Heater
- IP66 Certified Casing for Outdoor

DCS-6818

36x Speed Dome Camera

100Mbps LAN x1 36x Optical Zoom

Main Features
- MPEG4/MJPEG
- Day and Night Monitoring
- Wide Dynamic Range (WDR)
- 256 Preset Points
- Auto Cruise PTZ
- Privacy Mask

Physical Features
- Sony Exview CCD Sensor
- Auto Iris Lens
- IR-Cut Removable (ICR) Filter
- Dual-Band Filter
- Digital Input x 8
- Digital Output x 1
- BNC Video Output
- Built-in Fan and Heater
- IP66 Certified Casing for Outdoor

Pan, Tilt, Zoom (PTZ) IP Cameras

Model	DCS-5220	DCS-5230	DCS-5605	DCS-5635	DCS-6616	DCS-6815	DCS-6818
Image Sensor							
Type	1/4" CMOS	1/3" CMOS	1/3" Samsung De-Interlace CCD	1/3" Samsung De-Interlace CCD	Sony Super HAD-II 1/4" CCD	1/4" Sony Exview CCD	1/4" Sony Exview CCD
Megapixel		•					
Wide Dynamic Range (WDR)					•	•	•
Maximum Video Resolution	640 x 480	1280 x 1024	NTSC: 720 x 480 PAL: 720 x 576	NTSC: 720 x 480 PAL: 720 x 576	720 x 576	NTSC: 720 x 480 PAL: 720 x 576	NTSC: 720 x 480 PAL: 720 x 576
Lens							
Type	Fixed	Fixed	Fixed	Fixed	Varifocal	Auto Iris	Auto Iris
Focal Length	4mm	3.98mm	3.8 ~38 mm	3.8 ~38 mm	3.8 to 45.6 mm	3.4 ~61.2 mm	3.4 ~122.4 mm
F-Number	F2.0	F2.0	F1.8	F1.8	F1.6 ~ F2.7	F1.4 ~ F3.0	F1.4 ~ F3.0
Minimum Illumination (Lux)	1 Lux	0.5 Lux	0.7 Lux (Colour) 0.02 Lux (B/W)	0.7 Lux (Colour) 0.02 Lux (B/W)	0.1 Lux (Color)0.01 Lux (B/W)	0.01 Lux (Colour) 0.01 Lux (B/W)	0.01 Lux (Colour) 0.01 Lux (B/W)
Angle of View (Horizontal/Vertical)	48.45°	62°	51°~ 6°/ 40°~ 4°	51°~ 6°/ 40°~ 4°	4.49° to 52.8°/ 3.40° to 39.7°	60.8°~ 3.6°/ -	60.8°~ 1.8°/ -
Motorised Pan/Tilt	•	•	•	•	•	•	•
Optical Zoom			10X	10X	12X	18X	36X
Privacy Masks					•		
Day & Night							
Dual-Band Filter		•					
ICR Filter			•	•	•	•	•
IR Built-in		•					
Audio							
2-Way Audio		•	•	•	•		
Built-in Microphone	•	•	•	•			
External Microphone Input			•	•	•		
Built-in Speaker							
External Speaker Output		•	•	•	•		
Connectivity							
Wired LAN	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)	10/100BASE-TX (RJ-45)
Wireless LAN	802.11g	802.11n, 802.11g		802.11n, 802.1g			
802.3af PoE							
Digital Input/Output		DI x 1, DO x 1	DI x 1, DO x 1	DI x 1, DO x 1	DI x 8, DO x 1	DI x 8, DO x 1	DI x 8, DO x 1
RS-485 Interface			•	•			
Monitor Output			AV Output	AV Output	BNC Output	BNC Output	BNC Output
External Card Slot		Micro SD Card	Micro SD Card	Micro SD Card			
Software Features							
Video Format	MJPEG, MPEG-4	MJPEG, MPEG-4	MJPEG, MPEG-4, H.264	MJPEG, MPEG-4, H.264	H.264, MPEG-4, MJPEG	MJPEG, MPEG-4	MJPEG, MPEG-4
Multi-Stream	•	•			•		
Multi-Profile			•	•	•		
Digital Zoom	4X	16X	16X	16X	12X	12X	12X
HTTP Secure (HTTPS)							
Java Support		•	•	•	•		
Motion Detection	•	•	•	•	•	•	•
E-Mail Notification	•	•	•	•	•	•	•
Schedule Recording to Hard Drive	•	•	•	•	•		
Recording to NAS	•	•	•	•	•		
Audio Recording	•	•	•	•	•		
Video Output to 3GPP	•	•	•	•	•		
UPnP Installation	•	•	•	•	•		
DDNS Support	•	•	•	•	•	•	•
Enable/Disable LED Indicators			•	•			
D-ViewCam Compatible	•	•	•	•	•	•	•
Physical & Environmental							
Dimensions	105 (H) x 105 (W) x 112 (D) mm	112 (H) x 86 (W) x 121 (D) mm	140.3 x 136.1 x 140.1 mm	140.3 x 136.1 x 140.1 mm	131 (Ø) x 205 (H) mm	190 x 302.5 mm	190 x 302.5 mm
Weight	0.650 Kg	0.472 Kg	0.810 Kg	0.855 Kg	1.2 Kg	2.6 Kg	2.6 Kg
Max. Power Consumption	4.8 W	5.64 W			14 W	65 W	65 W
Operating Temperature	0 to 40 °C	0 to 40 °C	0 to 40°C	0 to 40°C	0 to 40 °C	-40 to 50°C	-40 to 50°C
Operating Humidity	20% to 80% Non-Condensing	20% to 80% Non-Condensing	20% to 80% Non-Condensing	20% to 80% Non-Condensing	20% to 80% Non-Condensing	20% to 80% Non-Condensing	20% to 80% Non-Condensing
Accessories							
Optional Outdoor Enclosure						Not Needed (IP66)	Not Needed (IP66)
Mounting Options						DCS-32-1, DCS-32-2, DCS-32-3, DCS-32-4	DCS-32-1, DCS-32-2, DCS-32-3, DCS-32-4
Other						DCS-80-6 (Outdoor PSU)	DCS-80-6 (Outdoor PSU)

Video Encoders

D-Link's high-performance, single channel video encoder integrates an existing analogue CCTV (closed circuit television) into an IP-based video surveillance system.

These video encoders are the ideal choice for businesses where surveillance equipment is already installed and functioning. The alarm handling features provide alerts in the event of loss of video or loss of network connection. Motion alarms with configurable detection areas allow for effective surveillance and help to mitigate the need for constant human supervision. A buffer system allows the server to capture images to the built-in SD card slot both before and after an event occurs.

DVS-210-1

Video Encoder

Main Features
- MPEG4/MJPEG Dual-Codec
- 2-Way Audio
- Motion Detection

Physical Features
- 1-Channel BNC Input
- SD Card Slot
- Digital Input/Digital Output
- Alarm Input x 2
- Alarm Output x 1
- RS-485 Interface
- Audio Line In/Out

DVS-310-1

H.264 PoE Video Encoder

Main Features
- H.264/MPEG4/MJPEG Dual Codec
- 2-Way Audio
- Motion Detection

Physical Features
- 1-Channel BNC Input
- SD Card Slot
- PoE Support
- Digital Input x 2
- Digital Output x 1
- RS-485 Interface
- Audio Line In/Out

What is a Video Encoder?

Video encoders, also known as video servers, enable an existing analogue CCTV video surveillance system to be integrated with a network video system. Video encoders play an important role in installations where many analogue cameras are to be maintained.
A video encoder makes it possible for an analogue CCTV system to migrate to a network video system. It provides the benefits of network video without having to discard existing analogue equipment such as analogue CCTV cameras and coaxial cabling.

How does it work?

A video encoder connects to an analogue video camera via a coaxial cable and converts analogue video signals into digital video streams that are then sent over a wired or wireless IP-based network (e.g. LAN, WLAN or Internet). To view and/or record the digital video, computer monitors and PCs can be used instead of DVRs or VCRs and analogue monitors.
By using video encoders, analogue video cameras of all types, such as fixed, indoor/outdoor, dome, pan/tilt/zoom, and other specialist cameras can be remotely accessed and controlled over an IP network.

What are the benefits of a Video Encoder?

A video encoder also offers other benefits such as event management and advanced video and security functionalities. In addition, it provides scalability and ease of integration with other security systems.

Video Encoders

Model		DVS-210-1	DVS-310-1
Network Specifications	Connection	1 x 10/100BASE-TX	
	802.3af PoE Compatible		•
	Network Protocols	IPv4, DHCP, ARP, DNS, TCP/IP, DDNS (D-Link), HTTP, HTTPS, UPnP™,Port Forwarding, Samba, SMTP, PPPoE, NTP (D-Link), FTP, RTP, RTSP, UDP, RTCP, ICMP, 3GPP	
Video Specifications	Video Format	MJPEG, MPEG-4	MJPEG, MPEG-4, H.264
	Bit Rate	64 Kbps to 4 Mbps	
	Supported Resolutions	PAL: D1 (720x576), CIF (352x288), QCIF (176x144) NTSC: D1 (720x480), CIF (352x240), QCIF (176x120)	
	Video Input	1CH, NTSC/PAL, BNC Connector, 1.0Vp-p with 75 Ω Loading	
	Video Recording	Instant Local Video Recording	
	Video Buffer	Pre/Post Buffer for Image/Video Capture	
Audio	Bidirectional Audio	•	
	Audio Connector	3.5 mm Stereo Input/Output	
	Audio Input	8 KHz Sample Rate, ADPCM	
	Audio Output	8 KHz Sample Rate, ADPCM	
	Audio Codec	G.726	
Pan/Tilt/Zoom	PTZ Connection	RS-485	
	PTZ Protocols	PelcoP, PelcoD, Merit Lilin, Visca, DynaColor, Transparent	
	Baud Rate	1200, 1800, 2400, 4800, 9600, 19200	
Digital I/O	Number of Inputs	2	
	Number of Outputs	1	
Alarm Handling	Loss Detection	Video and Network Loss Detection	
	Motion Detection	Hardware Based, Multiple Detection Areas	
	Event Handler	Alerts by FTP and Email	
Storage	Local Storage	SD Card	
Video Management Software	D-ViewCam	Compatible	
Physical and Environment	Dimension (L x W x H)	90 x 78 x 36 mm	
	Weight	232 g	
	Operating Temperature	0 to 40°C	
	Operating Humidity	20% to 80% Non-Condensing	

Network Video Recorders

D-Link's standalone wired Network Video Recorders (NVR) support 8-channel network cameras with MJPEG, MPEG4 or H.264 recording with 2 high-speed 3.5-inch SATA hard disks for long term recording. The NVR can record video from IP cameras located in local or remote sites into a dedicated HDD storage without turning on a computer. The NVRs support real-time monitoring and playback anytime, anywhere, via a web browser.

DNR-322L

2-bay mydlink NVR

Main Features

- Accesible from the Internet with mydlink
- 9-Channel IP Camera Recording
- 1 Channel Playback
- RAID 0/1 and JBOD
- HD Recording (720p)
- Configurable Recording Schedules
- Supports D-Link IP Cameras

Physical Features

- USB Port for UPS Status Update
- 2 Bays for SATA HDD
- Device Lock Hole

DNS-726-4

2-Bay Pro NVR

Main Features

- 9-Channel IP Camera Recording
- Real-time Monitoring and Playback
- Scheduled, Motion Detection, Manual and Event Recording
- E-map
- Schedule Auto Backup
- Smart Search for Advance Playback
- Support D-Link, ACTi, Arecont, Axis, Cisco, IQinVision, Mobotix, Panasonic, Sony Network Cameras

Physical Features

- USB Port for UPS Status Update
- 2 Bays for SATA HDD
- Key Lock for Device and Front Panel

Network Video Recorders

Model		DNR-322L	DNS-726-4
Hardware Specification	IEEE Standard	802.3/u/z	802.3; 802.3u; 802.3ab
	Network Port	One 10/100/1000 Mbps auto-MDIX fast Ethernet LAN Port	One 10/100/1000BASE-T Gigabit Ethernet Port
	Universal Serial Bus (USB)	USB Port for UPS Status Update	One USB 2.0 Port for UPS Status Update (Power Failure Update)
	Memory	Flash ROM: 128MB	Flash ROM: 32MByte; RAM: 128MByte DDR
	Hard Disk Drive (HDD)	Embedded two SATA II 3.5" HDD interface, Support 2TB HDD RAID 0/1 and JBOD Supported	2-Bay; SATA I, II; Control & Manage via PC; Reformat Disk; Redundant Array of Inexpensive Disks (RAID) 0, 1, Just a Bunch of Drives (JBOD)
	Reset to Factory Default	Reset to Factory Default. Reset Configuration to Default	Hardware Reset Button; Reset Button in Firmware GUI
	Device Security	Device Lock Hole	Front Panel Lock; Device Lock Hole
Firmware Specification	Operating System	Linux	Linux
	Supported Network Cameras	Supports all D-Link IP Cameras (Only) and Auto Discovery Function Include 1.3 Megapixel and HD Resolution	D-Link, ACTi, Arecont, Axis, Cisco, IQinVision, Mobotix, Panasonic, Sony Network Cameras
	Recording Performance	Up to 270 Frames at HD (1280x720) (around 810 frames at D1)	NTSC: Up to 120fps; PAL: Up to 200fps at CIF
	Camera Search	Universal Plug-and-Play (UPnP)	Universal Plug-and-Play (UPnP)
	Audio & Video Recording	Synchronised Audio & Video Recording	Synchronised Audio & Video Recording
	Compression Format	H.264, MPEG-4, M-JPEG (for supported cameras)	H.264; MPEG-4; MJPEG (for supported cameras)
	Video Setting	Resolution, Quality, Frame Rate, Enable Audio, Go to Camera Interface	Resolution; Quality; Frame Rate; Enable Audio; Go to Camera Interface
	Recording Type	Record by Schedule, Manual Record, Event Record (Motion Detection)	Record by Schedule, Manual Record, Event Record (Motion Detection)
	Remote Live View	Via Internet Explorer Remote Live Viewer Maximum 9 Simultaneous Channels	Via Internet Explorer Remote Live Viewer Maximum 9 Simultaneous Channels
	Remote Live View Control	Live view, Preset/Go, Patrol, Focus, PTZ Functions, Snapshot, Full Screen, Auto Scan, Digital Zoom (Zoom in & Zoom out)	Live View; Preset/Go; Patrol; Focus; PTZ Function; Snapshot; Full Screen; Digital Zoom; Remote I/O
	Remote Playback	Internet Explorer and NVR Client Playback System with Timeline GUI, Search by Event, Area, Camera, Date and Time Support One-Channel Playback Digital Zoom to Specific Area	Internet Explorer and NVR Client; Playback System with Timeline GUI, Search by Event, Area, Camera, Date and Time Support Four-Channel Playback Simultaneous Playback and Smart Search by General Motion, Missing Object
	Remote Playback Control	Playback with normal, fast forward/backward and step forward/backward	Playback with Normal, Fast Forward/Rewind and Step Forward/Rewind; Smart Search Intelligent Function: General Motion, Missing Object, Foreign Object, Camera Occlusion, Lose Focus
	Overwrite Recording	Automatic Recycling when Disk Storage is Full	Automatic Recycling when Disk Storage is Full
	File Export	Export Videos to "AVI" or "ASF" file (ASF with Timestamp) Export Images to "BMP" or "JPG" file	Export Videos to "AVI" or "ASF" File (ASF with Timestamp) Export Images to "BMP" or "JPG" File
	User Account	Additional Accounts can be created to allow User Access to the System and specify authorisation for Camera Channels, PTZ, etc.	Additional Accounts can be created to allow User Access to the System and specify Authorisation for Camera Channels, PTZ, etc
	Dynamic Domain Name System (DDNS)	D-Link DDNS Server	D-Link DDNS Server
	System Time	Set System Time (D-Link NTP, Input Time, Synch with Computer, Daylight Savings Time)	Set System Time (D-Link NTP, Input Time, Sync with Computer, Daylight Saving Time)
	Remote Backup	Remote Software can Backup Raw Data to Redundant Storage	Remote Software can Backup Raw Data to Redundant Storage
	System Status	Camera Status, System Status	Camera Status; System Status
	Network Service Protocol	IPV4, ARP, TCP, UDP, ICMP, DHCP Server, DHCP Client, NTP Client (D-Link), DNS Client, DDNS Client (D-Link), SMTP Client, HTTP Server, PPPoE, UPnP, IP Filtering, Samba Server	IPV4, ARP, TCP, UDP, ICMP, DHCP Server, DHCP Client, NTP Client (D-Link), DNS Client, DDNS Client (D-Link), SMTP Client, HTTP Server, PPPoE, UPnP, IP Filtering, Samba Server
	User Interface	HTTP Web Browser, Internet Explorer v7 or later, NVR Search Utility, Multiple Language GUI	HTTP Web Browser, Internet Explorer v7 or later, NVR Search Utility, Multiple Language GUI
Physical and Environment	Dimension (W x D x H)	115 x 178 x 146 mm	198 x 104 x 132 mm
	Weight	0.8751 Kg	1.23 Kg
	Power Input	External Power Adapter	External Power Adapter
	Max. Power Consumption	25.20 Watt	23.59 W; Standby State: 7.26 Watt
	Operating Temperature	0˚ to 55˚ C	0 to 55°C
	Storage Temperature	-20˚ to 70˚ C	-20 to 70°C
	Operating Humidity	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)

Video Management Software (VMS)

D-ViewCam Standard (DCS-100) Video Management Software (VMS), bundled with D-Link's IP cameras, provides video recording, live view and playback management for IP cameras and video servers.

D-ViewCam Standard

D-ViewCam Standard network camera surveillance software (DCS-100) is bundled with D-Link IP cameras and is a comprehensive surveillance system designed to centrally manage multiple IP cameras for Home, Small Office Home Office (SOHO), or Small and Medium Business (SMB) users. Supporting up to 32 network cameras, D-ViewCam is compatible with all current D-Link IP cameras and video servers. It offers digital monitoring and recording capabilities of video, audio and events for various security applications. This software provides users with a wide array of features including video recording, playback and video live view.

The easy-to-use D-ViewCam software allows users to manage up to 32 IP cameras on one screen and display real-time operating information from the camera on the main screen. The e-map mode allows users to arrange a map with camera locations and orientation. Additonal features such as auto-patrol, rotate, zoom, and focus provide users with optimal control over their video surveillance. Up to 64 live clients can monitor videos via browsers.

D-ViewCam offers users scheduled, motion and manual recording options to meet individual needs. Recorded files can be searched by video type and selected within the user interface where the files can be played, edited and converted into AVI or ASF files.

Event action configuration provides users with optimal surveillance and security by detecting motion occurring on the cameras or through added devices such as smoke detectors, magnetic door sensors, emergency buttons, card readers and other I/O devices. By attaching these devices to a compatible D-Link IP camera, a warning will be sent to D-ViewCam to notify users during the occurrence of an event. Users can combine event actions, such as triggering I/O devices and send email notifications when an event occurs.

The backup function of D-ViewCam saves everything from the playback panel including log information. Users can load backup files to any PC with a Windows operating system. D-ViewCam also provides a DB-Tool utility to help users reconstruct, repair or relocate the database in a local drive, external drive or network drive. Backup videos and logs can also be burned onto CDs.

Video Display

Video Playback

Video Playback

Camera Accessories - Enclosures, Brackets, PSU

Model		DCS-60
Enclosures	Input Power	90~264 V AC
	Output Power	12 V DC, 3 A
	Heater	On at 18˚C / Off at 28˚C
	Blower	On at 35˚C / Off at 25˚C
	Dimensions	450 x 135 x 140 mm
	Material	Aluminium
	Operating Temperature	-20 to 45˚C
	Operating Humidity	0% to 95% RH Non-Condensing
	Compatible With	DCS-3110 DCS-3411 DCS-3415 DCS-3710

Model		DCS-32-1	DCS-32-2	DCS-32-3	DCS-32-4	DCS-34-2	DCS-34-3
Mounting Options	Type	Straight Tube (Long)	Straight Tube (Short)	Standard Pendant	Mini Pendant	Pendant Mount	Bent Mount
	Compatible With	DCS-6815 DCS-6818	DCS-6815 DCS-6818	DCS-6815 DCS-6818	DCS-6815 DCS-6818	DCS-6511	DCS-6511

Model		DCS-80-6
Power Supplies	Input Power	220~230 V AC
	Output	24 V DC
	Protection	IP66
	Compatible With	DCS-6815 DCS-6818

Network Storage

Every business needs reliable data storage devices, cost-effective back up and disaster recovery solutions should the worst happen. D-Link's range of networked storage devices provide simple, cost-effective solutions to these data management challenges allowing you to protect and share your data more easily. Products under this category include Network Attached Storage (NAS) devices and Storage Area Network Arrays (IP SAN) solutions.

Range Overview

Network Attached Storage (NAS)

5-BAY

DNS-1200-05

4-BAY

DNS-345

DNS-1100-04

DNS-1550-04

2-BAY

DNS-325

FEATURES

Storage Area Network Arrays (IP SAN)

15-BAY

DSN-3400-10

DSN-3200-10

12-BAY

Scales to 60 drives

DSN-6110

DSN-6120

DSN-6410

DSN-6420

5-BAY

DSN-1100-10

DNS-1200-05

4-BAY

DNS-1100-04

DNS-1550-04

FEATURES

Storage Area Network Arrays (IP SAN)

D-Link's Storage Area Network Arrays (IP SAN) are designed to provide a reliable network data storage solution for entry-level and SMB segments. These storage arrays can be easily implemented in Virtualised Server environments, nearline storage or as a supplement to the primary backup and recovery devices.

DSN-1100-10

5-Bay iSCSI SAN Array

Main Features
- RAID 0,1,1+0,5
- SATA-II
- Online Capacity Expansion and RAID Level Migration

Physical Features
- Tower

DSN-3200-10

15-Bay iSCSI SAN Array

Main Features
- RAID 0,1,1+0,5
- SATA-II
- Online Capacity Expansion and RAID Level Migration

Physical Features
- 15 Drive Trays
- 3U Rack Mountable

DSN-3400-10

15-Bay iSCSI SAN Array with XFP

Main Features
- RAID 0,1,1+0,5
- SATA-II
- Online Capacity Expansion and RAID Level Migration

Physical Features
- 15 Drive Trays
- 3U Rack Mountable

Optional Accessories
- 10-Gigabit XFP Transceivers
  DEM-421XT / DEM-422XT / DEM-423XT

DSN-6110

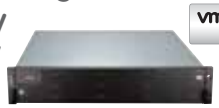
12-Bay iSCSI SAN Array

Main Features
- RAID 0,1,1+0,5,6,50,60
- SAS/SATA-II
- Single Controller

Physical Features
- 12 x 3.5" SAS/SATA-II Bays
- 4 x Gigabit Ports

DSN-6120

12-Bay iSCSI High Availability SAN Array



Main Features
- RAID 0,1,1+0,5,6,50,60
- SAS/SATA-II
- Redundant Controllers for High Availability

Physical Features
- 12 x 3.5" SAS/SATA-II Bays
- 8 x Gigabit Ports

DSN-6410

12-Bay iSCSI SAN Array

Main Features
- RAID 0,1,1+0,5,6,50,60
- SAS/SATA-II
- Single Controller

Physical Features
- 12 x 3.5" SAS/SATA-II Bays
- 2 x 10GbE Ports

DSN-6420

12-Bay iSCSI High Availability SAN Array

Main Features
- RAID 0,1,1+0,5,6,50,60
- SAS/SATA-II
- Redundant Controllers for High Availability

Physical Features
- 12 x 3.5" SAS/SATA-II Bays
- 4 x 10GbE Ports

DSN-6020

12-Bay iSCSI Expansion Enclosure

Main Features
- SAS/SATA-II
- Redundant Controllers for High Availability

Physical Features
- 12 x 3.5" SAS/SATA-II Bays
- 4 x 10GbE Ports

Storage Area Network Arrays (IP SAN)

Model		DSN-1100-10	DSN-3200-10	DSN-3400-10	DSN-6110	DSN-6120	DSN-6410	DSN-6420
Storage Features	Number of Bays	5	15	15	12	12	12	12
	Cache Memory	256 MB Standard 1 GB Max	512 MB Standard 4 GB Max	512 MB Standard 4 GB Max	4 GB Standard	4 GB Standard	4 GB Standard	4 GB Standard
	Cache Battery Backup	Built-in			Module (72 hours)			
	Bandwidth	425 Mbps	850 Mbps	1160 Mbps	500 Mbps	900 Mbps	650 Mbps	1300 Mbps
	Max Capacity	10 TB	30 TB*	30 TB*	36 TB*	36 TB*	36 TB*	36 TB*
	Drive Type	SATA-II			SAS SATA-II			
iSCSI	iSCSI Network Interface	4 x Gigabit Ports	8 x Gigabit Ports	1 x 10 GbE XFP Slot	4 x Gigabit Ports	4 x Gigabit Ports	2 x 10 GbE Ports	4 x 10 GbE Ports
	Host Interface	iSCSI Draft 20 Compliant Initiator						
	Max Hosts	1,024			16,384			
	CHAP Authentication	•						
	Management Access Control	•						
	iSCSI/TCP/IP Full Hardware Offload	•						
	Jumbo Frame	•						
	802.3ad Link Aggregation	4 Ports	8 Ports	N/A	4 Ports	4 Ports	2 Ports	2 Ports
	VLAN Support	•						
Volume & RAID	RAID Controller	Single (Integrated)			Single (Module)	Dual (Modules)	Single (Module)	Dual (Modules)
	RAID Support	0, 1, 1+0, 5			0, 1, 1+0, 3, 5, 6, 10, 30, 50, 60			
	Volumes	1,024 Virtual Volumes (256 Accessible per Initiator)						
	Target Nodes	1,024						
	Online Capacity Expansion	•						
	Hot-Swappable Drives	•						
	Instant Volume Access	•						
	Free Space Defragmentation	•						
	Failed Drive Auto-Detection	•						
	Spare Drive Auto-Rebuild	•						
	RAID Level Migration	•						
	Drive Roaming in Power Off	•						
	Micro Rebuilds	•						
Storage Management	Web-Based GUI	Create, Manage, Expand and Monitor Storage Pool, Volumes and RAID						
	Firmware Upgradeable	•						
Physical & Environmental	Supply Type	1 x 200 Watt	2 + 1 x 760 Watt (Redundant)		2 x 500 Watt (Redundant)			
	Dimensions	167 x 273 x 259 mm	438 x 571 x 133 mm	438 x 571 x 133 mm	442.8 x 500.6 x 88.0 mm			
	19" Rack Space	N/A	3U	3U	2U	2U	2U	2U
	Operating Temperature	0 to 40˚C						
	Operating Humidity	20% to 90% (Non-Condensing)			5% to 95% (Non-Condensing)			

* Max capacity can be increased with future firmware upgrades

Network Attached Storage (NAS)

D-Link's Network Attached Storage solutions are designed to provide simple, reliable network storage for businesses of all sizes. These NAS devices can be easily deployed to provide centralised file sharing and protect data on any network.

DNS-325

ShareCenter™ Shadow
2-Bay Network Attached Storage

1Gbps LAN x1

Main Features
- RAID 0,1
- SATA-II Drives
- 1 x Gigabit Port
- Media Server
- USB Print Server
- Add-on Utilities

Physical Features
- Desktop Size
- External Power Supply

DNS-345

ShareCenter™ Quattro
4-Bay Network Attached Storage

1Gbps LAN x2

Main Features
- RAID 0,1,5,10,5 + Hot Spare,JBOD,Standard
- SATA-II Drives
- 2 x Gigabit Port
- USB Print Server

Physical Features
- Desktop Size
- External Power Supply

DNS-1100-04

ShareCenter™ Pro 1100
4-Bay Network Attached Storage

1Gbps LAN x2

Main Features
- RAID 0,1,10,5,JBOD
- SATA-II Drives
- 2 x Gigabit Port
- iSCSI
- USB Print Server

Physical Features
- Desktop Size
- External Power Supply

DNS-1200-05

ShareCenter™ Pro 1200
5-Bay Network Attached Storage

1Gbps LAN x2

Main Features
- RAID 0,1,5,5+Spare,6
- SATA-II Drives
- 2 x Gigabit Port
- iSCSI
- USB Print Server
- Active Directory

Physical Features
- Tower
- Internal Power Supply

DNS-1550-04

ShareCenter™ Pro 1550
4-Bay Network Attached Storage

1Gbps LAN x2

Main Features
- RAID 0,1,5,6,10, JBOD
- SATA-II Drives
- 2 x Gigabit Port
- iSCSI
- USB Print Server
- Active Directory

Physical Features
- Rackmount
- Redundant Power Supply

Network Attached Storage (NAS)

Model		DNS-325	DNS-345	DNS-1100-04	DNS-1200-05	DNS-1550-04
Storage Features	Number of Bays	2	4	4	5	4
	Max Capacity	4 TB	12 TB	12 TB	10 TB	12 TB
	Drive Type	SATA-II				
Network	Interfaces	1 x Gigabit Port 1 x USB Port	2 x Gigabit ports 1 x USB ports	2 x Gigabit ports 2 x USB ports	2 x Gigabit Ports 2 x USB Ports	2 x Gigabit Ports 5 x USB Ports
	802.3ad Link Aggregation		•	•	•	•
	iSCSI			•	•	•
	File System	CIFS/SMB, NFS	CIFS/SMB, NFS, AFP, DFS, WebDAV	CIFS/SMB, NFS, DFS	CIFS/SMB, NFS, DFS	CIFS/SMB, NFS, DFS, AFP
	Active Directory		•	•	•	•
	VLAN Support		•	•	•	•
	Media Server	•	•			•
	FTP Server			•		
	User/Group Quotas			•		
	Dynamic DNS			•		
	USB Drive Support	•	•	•	•	USB 2.0 Ports x 5
	USB Print Server Support			•		
	USB UPS Monitoring			•		
Volume & RAID	RAID Controller	Single (Integrated)				Single (Module)
	RAID Support	0, 1	RAID 0, 1, 5, 10, 5+Hot Spare, JBOD, Standard	0,1,10,5 or JBOD	0, 1, 5, 5+Spare, 6	0, 1, 5, 6, 10, and JBOD
	Target Nodes			64	64	64
	Hot-Swappable Drives		•	•	•	•
	Free Space Defragmentation	•		•	•	•
	S.M.A.R.T.	•	•	•	•	•
	Thin Provisioning			•	•	•
	Volume Snapshots			•	•	•
	Virtual Disks			•	•	•
Storage Management	Web-Based GUI	HTTP	HTTP, HTTPS	HTTP, HTTPS	HTTP, HTTPS	HTTP, HTTPS
	Easy Search Utility	•	•	•	•	•
	Firmware Upgradable	•	•	•	•	•
	Email Alerts	•	•	•	•	•
	SNMP		•	•	•	•
Physical & Environmental	Display		•	•	•	
	Supply Type	External	External	External	Internal	Internal, 226 Watts (Redundant, 80 PLUS certified)
	Dimensions	104 x 198 x 132 mm	128 x 200 x 178 mm	205 x 162 x 258 mm	273 x 167 x 260 mm	429 x 442 x 44 mm
	Operating Temperature	0 to 40˚C	0 to 40˚C	0 to 40˚C	0 to 40˚C	5 to 35 ˚C (41 to 95 ˚F)
	Operating Humidity	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)	5% to 90% (Non-Condensing)	10% to 85% Non-Condensing

D-Link Assist:
expect instant help if the unexpected happens

Your network is the backbone of your business. Keeping it running is essential, even if the unexpected happens. D-Link Assist is a round-the-clock rapid-response technical support service that replaces faulty equipment quickly and efficiently. Maximising your uptime, and giving you the confidence that instant support is only a phone call away.

Comprehensive cover available across all D-Link business products

- D-Link Assist can be purchased together with any D-Link business product. So whether you're buying switches, wireless access points, storage, security or IP Surveillance equipment from D-Link, your peace of mind is guaranteed
- D-Link Assist also offers installation and configuration services to get your new hardware working quickly and correctly
- As standard, when you purchase a D-Link product we will exchange it should something go wrong.[1]

Convenient choice of three service levels to suit your needs

- **D-Link Assist Gold** for comprehensive 24-hour support
- **D-Link Assist Silver** for prompt same-day assistance
- **D-Link Assist Bronze** for guaranteed next business day response

Peace of mind from our award-winning support services

- D-Link is renowned for its award-winning technical support
- Plug into our network of highly trained specialists with in-depth knowledge of your D-Link equipment
- We'll act quickly to diagnose your problem and take instant corrective action

Choose the enhanced service level that is right for you

Every business has different needs. That's why D-Link Assist provides a choice of enhanced service levels to suit your individual requirements and your budget. And for your convenience all D-Link Assist agreements run for one or three years.

Gold

D-Link Assist Gold is perfect for mission-critical environments where maximum uptime is a high priority. It guarantees four hour around-the-clock response. Cover applies 24/7 for every day of the year including holidays.

Silver

D-Link Assist Silver is designed for 'high availability' businesses that require rapid response within regular working hours. It provides a four hour response service Monday to Friday from 8am to 5pm, excluding holidays.

Bronze

D-Link Assist Bronze is a highly cost-effective support solution for less critical environments. Response is guaranteed within eight business hours Monday to Friday from 8am to 5pm, excluding holidays.

Longer warranty for longer life

For extra assurance, D-Link Assist gives you the option of extending warranties on any D-Link business products that you purchase by three years.

D-Link Assist is currently available in the following countries: Austria, Belgium, Czech Republic, Denmark, Finland*, France, Germany, Hungary, Republic of Ireland*, Italy*, Luxembourg*, Monaco, The Netherlands, Norway*, Poland*, Portugal*, San Marino*, Spain*, Sweden*, Switzerland*, United Kingdom and Vatican.

* Partial coverage available.

1 Only for the duration of the hardware warranty for as long as the original buyer owns the product. Original proof of purchase may be required.

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